حمل الآن

مجانا وحصريا

المراجعة رقم (1)

اختبار شهر فبراير

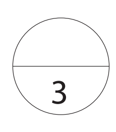




10 Marks

Model (1)

1 Choose the correct answer:



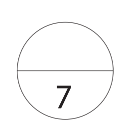
a $4 \div \frac{4}{5} =$ .... $(4 , 5 , \frac{4}{5} , \frac{16}{5})$

b If the price of a watch is 140 pounds, then 20% of its price represents .... pounds.

(140 , 0.2 , 28 , 112)

c The simplest form of 24 : 48 is .... (7 :12 , 6 : 12 , 1 : 3 , 1 : 2)

2 Answer the following:



a Find the value of m in the following equation:

$$\frac{4}{5} \times m = \frac{12}{25}$$

....

....

....

b Ahmed bought 5 kg of apples. If he paid 60 pounds, how much money does he pay to buy 7 kg?



....

....

c If the ratio between the number of boys and girls in a school is 3 : 2 and the number of girls is 120, find the number of all students in the school.

....

....

....

d Aliaa used $\frac{2}{5}$ cup of flour to make 2 pieces of cookies, then what is the amount of flour she needs to make 4 pieces of cookies?

....

....

e Write the reciprocal of the following:

1 $\frac{2}{7}$ **2** 9 **3** 0

1 .... **2** .... **3** ....

f Find the product of: 1.8×0.5

....

....

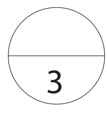
g **Complete:**

The next ratio of: 1 : 3 , 2 : 6 , 4 : 12 , ...

10 Marks

Model (2)

1 Choose the correct answer:

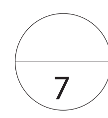


a $1\frac{1}{3}$ hours = ... minutes. (60 , 80 , 120 , 180)

b The reciprocal of 0.2 is ....  ($\frac{1}{2}$, 0.2 , 5 , $\frac{1}{5}$)

c $\frac{7}{12}$ ÷ .... = $2\frac{1}{3}$ (4 , $\frac{1}{4}$, $\frac{7}{12}$, $\frac{12}{7}$)

2 Answer the following:



a Salem has 50 pounds, he spent $\frac{1}{5}$ of what he has. What is the percentage of the money he spent?

....

....

b If Salma has 35 pounds and Sofia has 40 pounds. Find the ratio between what Sofia has and the total sum of money in the simplest form.

....

....



c Ali has 45 kg of sugar. He distributed them into small bags of $\frac{1}{3}$ kg each. How many bags did he use?

....

....

d If the price of 7 liters of juice is 42 pounds, find the price of the 5 liters of the same juice.

....

....

e Find the quotient of: $45.2 \div 0.4$

....

....

....

f **Find the value of the unknown number:**

1. 25% of $260 = x$
2. 10% of $x = 120$.

1 ....

2 ....

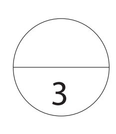
g **Complete:**

The next ratio of: 3 : 5 , 6 : 10 , 12 : 20 , ...

10 Marks

Model (3)

1 Choose the correct answer:

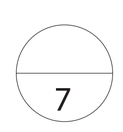


a $\frac{2}{5} \div 2 =$ .... $(5 , 3 , \frac{5}{2} , \frac{1}{5})$

b $4 \div \frac{2}{4} =$ .... $(2 , 8 , 16 , 1)$

c Fourth of 12 (..............) 0.25 (< , > , = , otherwise)

2 Answer the following:



a Khaled covers 4 km in 2 hours, find the distance he covers in 8 hours with the same rate.

....

....

b If the ratio between the number of boys and girls at a party is 3 : 5 and the number of girls is 20, find the number of boys.

....

....

c Write the reciprocal of each of the following:

1 $\frac{3}{8}$ 2 15

1 ....

2 ....

d Hany has 4 liters of juice. If he divides it into small bottles of $\frac{2}{3}$ liters each, how many bottles will he get?

....

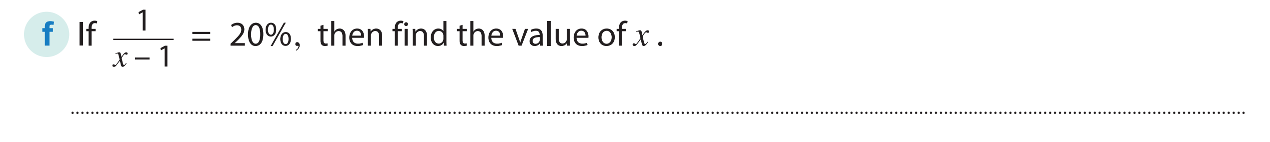
....

e Amany bought 3 kg of flour for 36 pounds.
How much money will she pay for 9 kg of the same kind of flour?

....

....

f If $\frac{1}{x-1} = 20\%$, then find the value of x.



g If Fatma had 140 pounds and Kenzi had 60 pounds. Find the ratio between what Fatma had and the total sum of money in the simplest form.

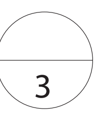
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10 Marks

Model (4)

1 Choose the correct answer:

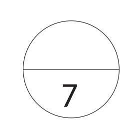


a 462.3 ÷ 0.23 (..............) 4623 ÷ 23 (< , > , = , otherwise)

b 0.23 × 0.1 = ... (2.3 , 0.023 , 23 , 0.0023)

c If 123 × 45 = 5,535, then 1.23 × 4.5 = ... (5.535 , 55.35 , 553.5 , 5,535)

2 Answer the following:



a If the length of a squared paper is $5\frac{3}{4}$ cm, find its perimeter.

....

....

b Complete the missing:

1. $\frac{1}{4}$ ÷ .... = $\frac{1}{2}$

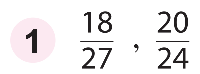
2. .... ÷ $\frac{3}{7}$ = $\frac{1}{3}$

c If the ratio between two numbers is 3 : 4 and their sum is 28, then find the value of the smaller number.

....

....

d Show if the following ratios are equivalent or not:



1. $\frac{18}{27}$, $\frac{20}{24}$ 2. $\frac{9}{15}$, $\frac{15}{25}$

1 ....

....

2 ....

....

e **Find the product of:** 3.2×0.04

....

....

f Write the reciprocal of each of the following:

1 $\frac{5}{7}$ **2** 0.4

1 ....

2 ....

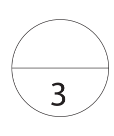
g **Complete:**

The next ratio of: 1 : 5 , 2 : 10 , 4 : 20 , ...

10 Marks

Model (5)

1 Choose the correct answer:



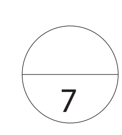
a $35 : 42 = \dots\dots : 6$ (4 , 5 , 6 , 7)

b If $\frac{x+3}{8} = \frac{24}{32}$, then $x = \dots\dots$ (3 , 4 , 5 , 6)

c To find the simplest form of the ratio 8 : 24, we divide the two terms by ……………

(3 , 8 , 12 , 24)

2 Answer the following:



a Arwa bought 4 kg of rice for 120 pounds. How much money will she pay for 10 kg of the same kind of rice?

……………………………………………………………………………………

……………………………………………………………………………………

b If Mona had 250 pounds and Ghada had 150 pounds. Find the ratio between what Mona had and what Ghada had in the simplest form.

……………………………………………………………………………………

……………………………………………………………………………………



……………………………………………………………………………………

c Find the value of x in the following equation:

$$\frac{8}{9} \times x = \frac{16}{81}$$

……………………………………………………………………………………

……………………………………………………………………………………

……………………………………………………………………………………

d If $\frac{1}{x+2} = 50\%$, then find the value of x.

....

....

e Salem has 64 kg of meat. If he cut them equally into small pieces of $\frac{1}{4}$ kg each, how many pieces did he get?

....

f Find the value of the unknown number:

1. 34% of $250 = x$
2. 16% of $x = 220$.

1 ....

2 ....

g If the ratio between the number of boys and girls in a school is 5 : 7 and the number of all students is 420 students, find the number of boys and girls in the school.

....

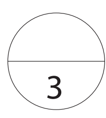
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....

10 Marks

Model (1)

1 Choose the correct answer:

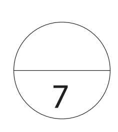


a $4 \div \frac{4}{5} =$ .... (4 , 5 , $\frac{4}{5}$, $\frac{16}{5}$)

b If the price of a watch is 140 pounds, then 20% of its price represents .... pounds. (140 , 0.2 , 28 , 112)

c The simplest form of 24 : 48 is .... (7 :12 , 6 : 12 , 1 : 3 , 1 : 2)

2 Answer the following:



a Find the value of m in the following equation:

$$\frac{4}{5} \times m = \frac{12}{25}$$

Answer:

$$m = \frac{12}{25} \div \frac{4}{5}$$

$$= \frac{12}{25} \times \frac{5}{4}$$

$$= \frac{60}{100} = \frac{6}{10} = \frac{3}{5}$$

b Ahmed bought 5 kg of apples. If he paid 60 pounds, how much money does he pay to buy 7 kg?

Answer:

The price of one kg = 60 ÷ 5 = 12 pounds,

then Ahmed will pay for 7 kg = 7 × 12 = 84 pounds.

c If the ratio between the number of boys and girls in a school is 3 : 2 and the number of girls is 120, find the number of all students in the school.

Answer:

The value of a part = 120 ÷ 2 = 60,

then the number of boys = 3 × 60 = 180 boys

The total number of students in the school = 120 + 180 = 300 students

d Aliaa used $\frac{2}{5}$ cup of flour to make 2 pieces of cookies, then what is the amount of flour she needs to make 4 pieces of cookies?

Answer:

The amount of flour used to make one piece $= \frac{2}{5} \div 2 = \frac{1}{5}$ cup of flour,

then the amount used to make 4 pieces of cookies $= \frac{1}{5} \times 4 = \frac{4}{5}$ cup of flour

e Write the reciprocal of the following:

1. $\frac{2}{7}$
2. 9
3. 0

Answer:

1. $\frac{7}{2}$
2. $\frac{1}{9}$
3. has no reciprocal

f Find the product of: 1.8×0.5

Answer:

$\because 18 \times 5 = 90$

$\therefore 1.8 \times 0.5 = 0.9$

$$\begin{array}{r} 18 \\ \times \quad 5 \\ \hline 90 \end{array}$$

g **Complete:**

The next ratio of: 1 : 3 , 2 : 6 , 4 : 12 , 8 : 24 .

10 Marks

Model (2)

1 Choose the correct answer:

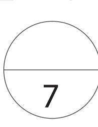
3

a $1\frac{1}{3}$ hours = ... minutes. (60 , 80 , 120 , 180)

b The reciprocal of 0.2 is .... ($\frac{1}{2}$, 0.2 , 5 , $\frac{1}{5}$)

c $\frac{7}{12}$ ÷ .... = $2\frac{1}{3}$ (4 , $\frac{1}{4}$, $\frac{7}{12}$, $\frac{12}{7}$)

2 Answer the following:



a Salem has 50 pounds, he spent $\frac{1}{5}$ of what he has. What is the percentage of the money he spent?

Answer:

The money that Salem spent = $50 \times \frac{1}{5}$ = 10 pounds

The percentage of the money he spent = $\frac{10}{50} \times 100\%$ = 20%

b If Salma has 35 pounds and Sofia has 40 pounds. Find the ratio between what Sofia has and the total sum of money in the simplest form.

Answer:

The ratio between what Sofia has and the total sum of money = 40 : 75

= 8 : 15

c Ali has 45 kg of sugar. He distributed them into small bags of $\frac{1}{3}$ kg each. How many bags did he use?

Answer:

The number of bags = $45 \div \frac{1}{3} = 45 \times 3$ = 135 bags.

d If the price of 7 liters of juice is 42 pounds, find the price of the 5 liters of the same juice.

Answer:

The price of one liter of the juice = $42 \div 7$ = 6 liters,

then the price of 5 liters of the same juice = 5×6 = 30 pounds.

e Find the quotient of: 45.2 ÷ 0.4

Answer:

45.2 ÷ 0.4 multiply the two numbers by 10

452 ÷ 4 = 113

$$\begin{array}{r|l} & 113 \\ 4 & 452 \\ & 4 \\ \hline & 05 \\ & 4 \\ \hline & 12 \\ & 12 \\ \hline & 00 \end{array}$$

f **Find the value of the unknown number:**

1 25% of 260 = x

2 10% of x = 120.

Answer:

1 $x = 25\% \text{ of } 260 = \frac{25}{100} \times 260 = 65$

2 $x = 120 \div 10\% = 1{,}200$

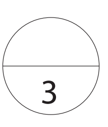
g **Complete:**

The next ratio of: 3 : 5 , 6 : 10 , 12 : 20 , 24 : 40 .

10 Marks

Model (3)

1 Choose the correct answer:

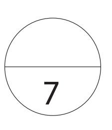


a $\frac{2}{5} \div 2 =$ .... (5 , 3 , $\frac{5}{2}$, $\frac{1}{5}$)

b $4 \div \frac{2}{4} =$ .... (2 , 8 , 16 , 1)

c Fourth of 12 .... 0.25 (< , > , = , otherwise)

2 Answer the following:



a Khaled covers 4 km in 2 hours, find the distance he covers in 8 hours with the same rate.

Answer:

$\frac{4 \text{ km}}{2 \text{ hours}} = \frac{?}{8 \text{ hours}}$

The distance he covers in 8 hours = 16 km

b If the ratio between the number of boys and girls at a party is 3 : 5 and the number of girls is 20, find the number of boys.

Answer:

$\frac{3}{5} = \frac{?}{20 \text{ girls}}$

The number of boys = 12 boys

c Write the reciprocal of each of the following:

1 $\frac{3}{8}$ 2 15

Answer:

1 $\frac{8}{3}$ 2 $\frac{1}{15}$

d Hany has 4 liters of juice. If he divides it into small bottles of $\frac{2}{3}$ liters each, how many bottles will he get?

Answer:

Number of bottles $= 4 \div \frac{2}{3} = 4 \times \frac{3}{2} = 6$ bottles

e Amany bought 3 kg of flour for 36 pounds.

How much money will she pay for 9 kg of the same kind of flour?

Answer:

The price of one kg of flour = 36 ÷ 3 = 12 pounds,

then the price of 9 kg = 9 × 12 = 108 pounds

f If $\frac{1}{x-1} = 20\%$, then find the value of x .

Answer:

$\frac{1}{x-1} = 20\%$ $\quad \therefore \frac{1}{x-1} = \frac{20}{100}$

$\therefore \frac{1}{x-1} = \frac{1}{5}$ $\quad \therefore x - 1 = 5$ $\quad \therefore x = 6$

g If Fatma had 140 pounds and Kenzi had 60 pounds. Find the ratio between what Fatma had and the total sum of money in the simplest form.

Answer:

The ratio between what Fatma had and the total sum of money = 140 : 200 (÷ 10)

= 14 : 20 (÷ 2)

= 7 : 10

10 Marks

Model (4)

1 Choose the correct answer:

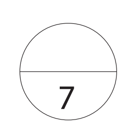
3

a 462.3 ÷ 0.23 (............) 4623 ÷ 23 (< , > , = , otherwise)

b 0.23 × 0.1 = ... (2.3 , 0.023 , 23 , 0.0023)

c If 123 × 45 = 5,535, then 1.23 × 4.5 = ... (5.535 , 55.35 , 553.5 , 5,535)

2 Answer the following:



a If the length of a squared paper is $5\frac{3}{4}$ cm, find its perimeter.

Answer:

The perimeter = side length × 4

$= 5\frac{3}{4} \times 4 = \frac{23}{4} \times 4 = 23$ cm

b Complete the missing:

1. $\frac{1}{4} \div \frac{1}{2} = \frac{1}{2}$

2. $\frac{1}{7} \div \frac{3}{7} = \frac{1}{3}$

c If the ratio between two numbers is 3 : 4 and their sum is 28, then find the value of the smaller number.

Answer:

The sum of all parts = 7

The value of one part = 28 ÷ 7 = 4, then the value of the smaller number = 3 × 4 = 12

d Show if the following ratios are equivalent or not:

1. $\frac{18}{27}$, $\frac{20}{24}$

2. $\frac{9}{15}$, $\frac{15}{25}$

Answer:

1. 18 × 24 = 432
   27 × 20 = 540
   The two ratios aren't equivalent.

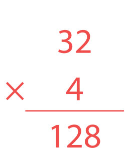
2. 9 × 25 = 225
   15 × 15 = 225
   The two ratios are equivalent.

e **Find the product of:** 3.2 × 0.04

Answer:

∵ 32 × 4 = 128

∴ 3.2 × 0.04 = 0.128



f Write the reciprocal of each of the following:

1 $\frac{5}{7}$ **2** 0.4

Answer:

1 $\frac{7}{5}$ **2** $\frac{10}{4}$

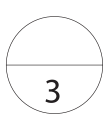
g **Complete:**

The next ratio of: 1 : 5 , 2 : 10 , 4 : 20 , 8 : 40

10 Marks

Model (5)

1 Choose the correct answer:



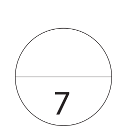
a $35:42 = \dots\dots : 6$ (4 , 5 , 6 , 7)

b If $\frac{x+3}{8} = \frac{24}{32}$, then $x = \dots\dots$ (3 , 4 , 5 , 6)

c To find the simplest form of the ratio 8 : 24, we divide the two terms by ....

(3 , 8 , 12 , 24)

2 Answer the following:



a Arwa bought 4 kg of rice for 120 pounds. How much money will she pay for 10 kg of the same kind of rice?

Answer:

The price of a kg of rice = 120 ÷ 4 = 30 pounds,

then the price of 10 kg = 30 × 10 = 300 pounds

b If Mona had 250 pounds and Ghada had 150 pounds. Find the ratio between what Mona had and what Ghada had in the simplest form.

Answer:

The ratio between what Mona had and what Ghada had = 250 : 150 (÷ 10)

= 25 : 15 (÷ 5)

= 5 : 3

c Find the value of x in the following equation:

$$\frac{8}{9} \times x = \frac{16}{81}$$

Answer:

$$x = \frac{16}{81} \div \frac{8}{9}$$

$$= \frac{16}{81} \times \frac{9}{8}$$

$$= \frac{144}{648} = \frac{2}{9}$$

d If $\frac{1}{x+2} = 50\%$, then find the value of x.

Answer:

$\frac{1}{x+2} = 50\%$ $\therefore \frac{1}{x+2} = \frac{50}{100}$

$\therefore \frac{1}{x+2} = \frac{1}{2}$ $\therefore x + 2 = 2$ $\therefore x = 0$

e Salem has 64 kg of meat. If he cut them equally into small pieces of $\frac{1}{4}$ kg each, how many pieces did he get?

Answer:

The number of pieces $= 64 \div \frac{1}{4} = 64 \times 4 = 256$ pieces.

f Find the value of the unknown number:

1. 34% of 250 $= x$
2. 16% of $x = 220$.

Answer:

1. $x = 34\%$ of $250 = \frac{34}{100} \times 250 = 85$
2. $x = 220 \div 16\% = 1{,}375$

g If the ratio between the number of boys and girls in a school is 5 : 7 and the number of all students is 420 students, find the number of boys and girls in the school.

Answer:

The value of a part $= 420 \div 12 = 35$,

then the number of boys $= 5 \times 35 = 175$ boys

The number of girls $= 7 \times 35 = 245$ girls



كيفية طباعة صفحات معينة من ملف معين

مثلا ازاى نطبع الصفحات من صفحة 4 الى صفحة 9



خطوة 1

خطوة 2 اختيار اسم الطابعة بتاعتك

خطوة 3 كتابة الصفحات المراد طباعتها نكتب رقم 4 ثم نكتب الشرطة دي - ثم نكتب 9

خطوة 4 اختيار نوع الورق

خطوة 5 اختيار A4

خطوة 6

المراجعة رقم (2)

اختبار شهر فبراير





General Revision on UNIT 8

1. Complete.

1. $\frac{1}{5} \div \frac{2}{9} =$ .... [Cairo 24]
2. Fifth of 15 is .... [El Menia 24]
3. The reciprocal of $\frac{5}{7}$ is .... [Souhag 24]
4. The reciprocal of 7 is .... [Alex. 24]
5. $\frac{1}{2} \div \frac{3}{4} =$ .... [Port Said 24]
6. $\frac{1}{6}$ of 12 is .... [Cairo 24]
7. $\frac{3}{4}$ of $\frac{4}{3} =$ .... [El Menia 24]
8. $\frac{2}{7} \times$ .... $= 1$ [Cairo 24]
9. $\frac{2}{5} \div \frac{10}{4} =$ .... [Qena 24]
10. $2 \div \frac{3}{4} =$ .... [Cairo 24]
11. $\frac{2}{5} \div 2 =$ .... [Cairo 24]
12. If 8 is $\frac{1}{3}$ of a number, then this number is .... [Port Said 24]
13. $\frac{3}{5} \div 1 =$ .... [Cairo 24]
14. From the opposite model, $\frac{3}{4} \div 2 =$ .... [El Beheira 24]
15. $7.8 \div 3.9 = 78 \div$ .... [Cairo 24]
16. $3.4 \times 0.2 =$ .... [Qena 24]
17. $0.9 \times 1.5 =$ .... [Cairo 24]
18. .... $\times \frac{1}{3} = 1$ [Beni Suef 24]
19. $5.37 \div 0.4 =$ .... $\div 4$ [Cairo 24]
20. $2.44 \times 0.01 =$ .... [Luxor 24]
21. $5 \div \frac{2}{3} = 5 \times$ .... [Aswan 24]
22. $3 \div \frac{1}{2} =$ .... [Souhag 24]
23. $0.8 \div 0.2 =$ .... [Cairo 24]

24. $\frac{7}{8} \div$ .... $= 7$ [Ismailia 24]

25. The number of $\frac{2}{5}$'s in 2 is .... [Kafr El Sheikh 24]

26. The model ▭▭▭▭ ▭▭▭▭ represents .... $\div$ .... [El Gharbia 24]

27. Half of $\frac{4}{7} =$ .... [Demietta 24]

28. $4.24 \div 0.8 =$ .... [Alex. 24]

29. .... $\times \frac{3}{4} = \frac{1}{2}$ [Cairo 24]

30. If $31 \times 25 = 775$, then $0.31 \times 2.5 =$ .... [Luxor 24]

2. Choose the correct answer.

1. The reciprocal of $\frac{4}{5}$ is .... [Cairo 24]
   A. $\frac{4}{5}$ B. $\frac{5}{4}$ C. 1 D. 0.8

2. The reciprocal of 5 is .... [Cairo 24]
   A. 0 B. 5 C. -5 D. $\frac{1}{5}$

3. $\frac{3}{4} \times m = \frac{3}{8}$, then $m =$ .... [Cairo 24]
   A. 1 B. $\frac{1}{2}$ C. $\frac{3}{4}$ D. 2

4. $\frac{3}{8} \div \frac{1}{16} =$ .... [El Monofia 24]
   A. 2 B. 3 C. 6 D. $\frac{3}{24}$

5. $\frac{4}{5} \div$ .... $= 1$ [Cairo 24]
   A. $\frac{4}{5}$ B. $\frac{5}{4}$ C. 1 D. 0.4

6. .... $\times \frac{3}{4} = 1$ [Qena 24]
   A. $1\frac{1}{3}$ B. $4\frac{1}{3}$ C. $1\frac{2}{3}$ D. $\frac{3}{4}$

7. $6 \div \frac{3}{4} =$ .... [El Beheira 24]
   A. 6 B. $\frac{1}{6}$ C. 8 D. $\frac{1}{8}$

8. .... $\div \frac{3}{5} = 0$ [Giza 24]
   A. $\frac{5}{3}$ B. 1 C. $\frac{3}{5}$ D. 0

9. $\frac{2}{3} \div 2 =$ .... in the simplest form. [Alex. 24]
   A. $\frac{1}{6}$ B. $\frac{2}{6}$ C. $\frac{1}{3}$ D. $\frac{4}{6}$

10. If 4 is $\frac{1}{9}$ of a number, then this number is .... [Cairo 24]
    A. 36 B. 32 C. $2\frac{1}{4}$ D. $\frac{4}{9}$

11. If we need to cut 2 meters of ribbon into pieces that are $\frac{2}{3}$ of meter, which expression can you use to check your answer .... [Souhag 24]

A. $\frac{2}{3} \div 3$ B. $2 \div \frac{2}{3}$ C. $2 \times \frac{2}{3}$ D. $\frac{2}{3} \times 3$

12. $2\frac{2}{7} = 2 \times \frac{—}{7}$ [Cairo 24]

A. 2 B. 8 C. 6 D. 18

13. $\frac{1}{3} \div \frac{1}{2}$ .... $\frac{2}{5}$ [Souhag 24]

A. $<$ B. $=$ C. $>$ D. otherwise

14. $\frac{3}{4} \div \frac{1}{2}$ .... $\frac{1}{6}$ [Cairo 24]

A. $<$ B. $>$ C. $=$ D. $\leq$

15. 5×5 .... $5 \div \frac{1}{5}$ [Cairo 24]

A. $<$ B. $>$ C. $=$ D. otherwise

16. $\frac{5}{7} \div \frac{2}{14} =$ .... [Giza 24]

A. $\frac{5}{10}$ B. 7 C. $\frac{10}{14}$ D. 5

17. How many $\frac{3}{4}$'s are there in 6 oranges?

A. 8 B. $\frac{18}{4}$ C. $4\frac{1}{2}$ D. 7

18. $0.676 \times 0.1 =$ .... [Cairo 24]

A. 67.6 B. 0.0676 C. 16.76 D. 6,706

19. $0.56 \times 0.2 =$ .... [Alex. 24]

A. 11.12 B. 0.112 C. 11.2 D. 0.0112

20. Which of the following is equivalent to $\frac{1}{4} \div 8$? [Cairo 24]

A. $\frac{1}{4} \div \frac{1}{8}$ B. $\frac{1}{4} \times \frac{1}{8}$ C. $2 \times \frac{1}{8}$ D. $2 \div \frac{1}{8}$

21. The used problem to check of $\frac{3}{7} \div 3 = \frac{1}{7}$ is .... [Port Said 24]

A. $3 \div \frac{1}{7} = 21$ B. $\frac{3}{7} \times \frac{1}{7} = \frac{3}{14}$ C. $\frac{1}{7} \times 3 = \frac{3}{7}$ D. $\frac{3}{7} \times 3 = \frac{3}{7}$

22. $\frac{5}{7} \times$ .... $= 1$ [Cairo 24]

A. 1 B. 0 C. $\frac{7}{5}$ D. $\frac{5}{6}$

23. If $123 \times 26 = 3{,}198$, then $1.23 \times 2.6 =$ .... [Cairo 24]

A. 3.198 B. 31.98 C. 3,198 D. 0.3198

24. $3.6 \div 0.04 =$ .... [El Beheira 24]

A. 9 B. 0.9 C. 90 D. 0.09

25. $2.1 \times 0.3 =$ .... [El Monofia 24]

A. 63 B. 0.63 C. 0.063 D. 6.3

26. $12.12 \div 1.1 =$ .... $\div 11$ [Giza 24]

A. 1,212 B. 1.212 C. 12.12 D. 121.2

27. $0.2 \times 0.5 =$ .... [El Menia 24]

A. 0.10 B. 0.01 C. 1 D. 1.10

28. From the opposite model

$, 3 \div \frac{1}{4} =$ ....

1 Whole				1 Whole				1 Whole			
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$

A. $\frac{3}{4}$ B. $\frac{4}{3}$

C. $\frac{1}{12}$ D. 12 [Alex. 24]

29. $\frac{4}{11} \div \frac{1}{4} =$ .... [Luxor 24]

A. $\frac{1}{11}$ B. $\frac{4}{4}$ C. $\frac{16}{11}$ D. $\frac{11}{16}$

30. .... has no reciprocal. [El Menia 24]

A. 1 B. 0 C. 2 D. 5

3. Answer the following.

1. Find the value of : $\frac{4}{9} \times 81$ [Giza 24]

2. Find the value : $\frac{5}{7}$ of 35 [Giza 24]

3. A road of length 8 km. A road lamp is placed every $\frac{1}{5}$ km.
How many lamps does the road need ? [Alex. 24]

4. A runner covered $\frac{4}{5}$ kilometer in 2 laps. How many kilometers did he run in one lap ? [El Menia 24]

5. Wael covered $\frac{3}{4}$ km in 6 min. What is the distance covered in one min ? [Alex. 24]

6. Youssef distributed $\frac{5}{8}$ kg of meet from his refrigerator among some persons , find the number of persons if each person's share $\frac{1}{8}$ kg of this meet [El Beheira 24]

General Revision on UNIT 9

1. Complete.

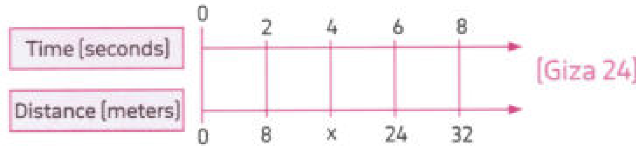
1. If $\frac{3}{7} = \frac{k}{49}$, then k = ... [Cairo 24]
2. The first term in the ratio 4 : 7 is .... [El Menia 24]
3. If $\frac{3}{4} = \frac{x}{12}$, then x = ... [Giza 24]
4. 24 : 30 = ... to .... [in simplest form] [El Beheira 24]
5. The first term in the ratio $\frac{3}{5}$ is .... [Alex. 24]
6. 12 : 16 = ... : .... [in simplest form] [Cairo 24]
7. From the opposite double number line, the value of x = ... [Giza 24]

0	2	4	6	8
0	3	6	x	12

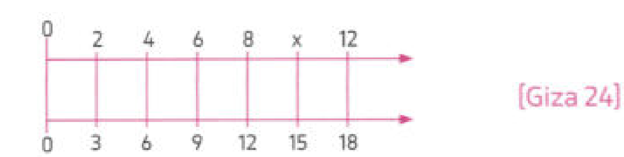
8. The next ratio in the pattern $\frac{1}{2}$, $\frac{2}{4}$, $\frac{3}{6}$ is .... [Alex. 24]
9. From the opposite double number line , the value of x is .... [Alex. 24]



10. If 3 : 7 is equivalent to 21 : y , then y = ... [Cairo 24]
11. If $\frac{1}{7} = \frac{x}{14}$, then x = ... [Giza 24]
12. 240 : 300 = ... : .... [in simplest form] [Qena 24]
13. If $\frac{2}{5} = \frac{60}{x}$, then x = ... [El Monofia 24]
14. From the opposite double number line, the value of x = ... [Giza 24]



15. The second term in the ratio 8 : 7 is .... [El Beheira 24]
16. If $\frac{5}{7} = \frac{10}{c}$, then c = ... [El Beheira 24]
17. If the number of boys in a class is 12 and the number of girls is 15 , then the ratio between the number of boys to the number of girls = ... : .... [El Monofia 24]
18. From the opposite double number line , the value of x = ... [Giza 24]



19. 1 : 3 = 15 : .... [El Monofia 24]

20. If the ratio between two numbers is 2 : 5 and the smaller number is 10 , then the greater number = ... [Cairo 24] [El Menia 24]

21. The ratio between two side lengths of a rhombus is .... [Giza 24]

22. If $\frac{3}{4} = \frac{12}{x}$, then x + 4 = ... [Giza 24]

23. If 3 : 4 is equivalent to m : 20 , then m = ... [Port Said 24]

24. If $\frac{2}{3} = \frac{6}{9}$, then 2 × 9 = ... × .... [Cairo 24]

25. From the opposite double number line , if the ratio between Omar saves and Eman saves was 3 : 4 , if Eman saved 20 L.E. , then Omar saved .... L.E.

Omar: 0, 3, ...
Eman: 0, 4, 20

[El Monofia 24]

26. If the ratio between what Ahmed has to what Sara has is 4 : 7 , and Sara has 56 pounds , then Ahmed has .... pounds. [El Monofia 24]

27. If $\frac{7}{10} = \frac{21}{x}$, then x = ... [Cairo 24]

2. Choose the correct answer.

1. The first term in the ratio $\frac{7}{9}$ is .... [Souhag 24]
   A. 7 B. 9 C. 16 D. 63

2. The second term in the ratio $\frac{7}{9}$ is .... [Alex. 24]
   A. 9 B. 7 C. 16 D. 2

3. 7 : 21 = ... : .... (in the simplest form) [Port Said 24]
   A. 7 : 3 B. 1 : 3 C. 3 : 7 D. 3 : 1

4. The ratio between the two numbers 11 : 22 in simplest form is .... [Giza 24]
   A. 1 : 1 B. 1 : 2 C. 2 : 1 D. 11 : 2

5. The simplest form of 15 : 25 = ... [El Menia 24]
   A. 5 : 3 B. 3 : 5 C. 1 : 3 D. 3 : 1

6. The ratio 12 : 18 = ... : .... (in the simplest form) [El Monofia 24]
   A. 6 : 8 B. 3 : 4 C. 4 : 6 D. 2 : 3

7. Which of the following is the simplest form of 16 : 24 ? [Luxor 24]
   A. 8 : 12 B. 4 : 6 C. 2 to 3 D. $\frac{3}{2}$

8. The ratio between the two numbers 40 : 80 in the simplest form is .... [Giza 24]
   A. 1 : 1 B. 1 : 2 C. 2 : 1 D. 11 : 2

9. The ratio 200 to 350 = ... [in the simplest form] [Cairo 24]

A. $\frac{2}{35}$ B. 4 : 7 C. 7 to 4 D. 5 : 7

10. The opposite tape diagram represents the ratio .... [Alex. 24]

A. 3 : 5 B. 5 : 2

C. 5 : 1 D. 5 : 5

11. The tape diagram represents the ratio .... [Cairo 24]

A. 3 : 6 B. 1 : 2

C. 7 : 3 D. $\frac{6}{4}$

12. In the tape diagram if the number of boys is 20, then the number of girls is .... [Souhag 24]

Boys

Girls

A. 16 B. 20

C. 25 D. 30

13. The missing number in the opposite double number line is ....

Time (seconds)	0	2	4	6	8
Distance (meters)	0	8	.....	24	32

A. 8 B. 12

C. 16 D. 18 [Luxor 24]

14. From the opposite equivalent ratios, A + B = ... [Cairo 24]

4	20	B
9	A	36

A. 68 B. 61

C. 66 D. 65

15. The ratio 2 : 3 is equivalent to 12 : .... [Cairo 24]

A. 9 B. 12 C. 15 D. 18

16. $\frac{6}{7}$ is equivalent to .... [Giza 24]

A. $\frac{7}{6}$ B. $\frac{18}{24}$ C. $\frac{42}{49}$ D. $\frac{35}{30}$

17. $\frac{\ldots}{2} = \frac{45}{18}$ [Port Said 24]

A. 5 B. 9 C. 4 D. 6

18. If $\frac{a}{b} = \frac{c}{d}$, which of the following is true ? [Cairo 24]

A. $a \times b = c \times d$ B. $a \times c = b \times d$ C. $a \times d = c \times b$ D. $c \times b = d \times b$

19. If the ratio between the number of red pens to the number of blue pens is 2 : 5 and the number of blue pens is more than the number of red pens by 9 pens , then the sum of all pens is .... [Cairo. 24]

A. 7 **B.** 10 **C.** 4 **D.** 21

20. If $\frac{5}{7} = \frac{x}{21}$, then x = ... [Cairo 24]

A. 15 **B.** 5 **C.** 10 **D.** 35

21. $\frac{5}{x} = \frac{10}{12}$, then x = ... [Alex. 24]

A. 4 **B.** 6 **C.** 15 **D.** 24

22. If 2 : 7 is equivalent to x : 21 , then x = ... [El Menia 24] [Souhag 24]

A. 6 **B.** 7 **C.** 12 **D.** 21

23. If 3 : 7 is equivalent to 21 : y , then y = ... [Qena 24]

A. 11 **B.** 35 **C.** 21 **D.** 49

24. If the ratio 9 : 27 = 1 : b , then b + 3 = ... [El Monofia 24]

A. 3 **B.** 9 **C.** 6 **D.** 27

25. 7.3 : 0.5 .... 73 : 5 [El Monofia 24]

A. $>$ **B.** $<$ **C.** $=$

26. The ratio between two side lengths of a square is .... [Giza 24]

A. 1 : 1 **B.** 1 : 2 **C.** 1 : 4 **D.** 2 : 1

27. The ratio between the side length of a square and its perimeter is .... [Cairo 24]

A. 1 : 4 **B.** 2 : 4 **C.** 1 : 2 **D.** 1 : 1

28. If $\frac{8}{x}$ is equivalent to $\frac{1}{2}$, then x = ... [Cairo 24]

A. 4 **B.** 8 **C.** 16 **D.** 40

29. If the ratio between two numbers is 2 : 5 and their sum is 35 , then the greater number is .... [Cairo 24]

A. 4 **B.** 13 **C.** 7 **D.** 25

30. If the ratio between two numbers is 3 : 5 and the greater number is 15 , then the smaller number is .... [El Beheira 24]

A. 25 **B.** 5 **C.** 9 **D.** 8

31. The ratio of the number of red balls to the number of blue balls is 3 : 4 and the number of the red balls is 24 , then the number of the blue balls is .... [Giza 24]

A. 18 **B.** 32 **C.** 12 **D.** 44

32. If the ratio between the number of boys and the number of girls at a school is 3 : 4 and the number of boys is 300 , then the number of girls = ... [Giza 24]

A. 300 B. 800 C. 400 D. 100

33. If the ratio between number of oranges and the number of apples is 3 : 5 and the number of apples is 15 , then the number of oranges is .... [Cairo 24]

A. 3 B. 5 C. 9 D. 15

---

3. **Answer the following.**

1. If the ratio between the number of boys and the number of girls is 7 : 6 and the number of girls is 42 , then find : [Cairo 24]
   a. The number of boys.
   b. The total number of pupils.

2. The ratio between number of boys and the number of girls in a class is 4 : 5 and the number of boys is 20.
   Find the total number of pupils. [Alex. 24]

3. Find the value of x : $\frac{x}{8} = \frac{3}{6}$ [Cairo 24]

March Tests | Till lesson 7 unit 10

Test 1



1. Choose the correct answer.

1. $\frac{1 \text{ km}}{____}$ is a conversion factor.

   A. 2 hours B. 100 cm C. 1,000 km D. 1,000 m

2. If the ratio between two numbers is 3 : 5 and the smaller one is 15 , then the greater one is ______

   A. 9 B. 25 C. 16 D. 34

3. $13.31 \div 1.1 =$ ______ $\div 11$

   A. 1,331 B. 1.331 C. 13.31 D. 133.1

---

2. Answer the following questions. (5 marks)

1. **Find the value of m if.** $\frac{3}{4} \times m = \frac{3}{8}$

   ______

2. **Use model to calculate** $\frac{3}{4} \div 6$

   ______

3. **Find.** $6.3 \div 0.09$

   ______

4. **Find the value of x if.** $\frac{x-1}{5} = \frac{20}{25}$

   ______

5. A runner covered $\frac{4}{5}$ kilometer in 4 laps. **How many kilometers did he cover in one lap ?**

   ______

6. The ratio between the number of cats and the number of dogs is 2 : 5 and their sum of is 63. **Find the number of each by using the tape diagram.**

   ______

   ______

7. If the price of one meter of cloth is 6.45 L.E.
   What is the cost of 3.6 meters of cloth ?

   ______

   ______



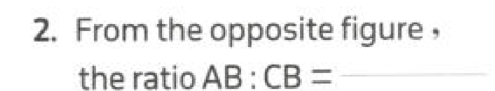
Test 2

1. Choose the correct answer.

1. 45 % + 0.55 = ...

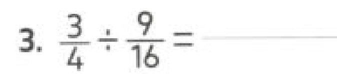
   A. 1 % B. 100 C. 1 D. 0.1

2. From the opposite figure, the ratio AB : CB = ...



   A. 3 : 4 B. 2 : 3 C. $\frac{2}{4}$ D. 2 : 5

3. $\frac{3}{4} \div \frac{9}{16} =$ ....



   A. $\frac{4}{3}$ B. $\frac{3}{4}$ C. $\frac{27}{64}$ D. $\frac{64}{27}$

2. Answer the following questions.

1. **Find the value of x if.** $\frac{4}{7} = \frac{x+3}{28}$

2. **Find.** 6.3 × 0.05

3. The number of children in a nursery is 100, if 40 % of them are vaccinated.
   What is the number of the vaccinated children in this nursery?

4. Salah bought 3 kg of oranges. He paid 36 L.E. **How much money does he pay to buy 6 kg?**

5. If the price of 1 kg of orange is 25.4 L.E. **Find the price of 1.5 kg.**

6. Each stone block in the Great Pyramid has a mass of about 2,300 kilograms.
   About how much is the mass of one block in grams?

7. If Wael has 45 L.E. and Sameh has 35 L.E.
   Find the ratio between what Wael has to the total money with them.

المراجعة رقم (3)

اختبار شهر فبراير



Model 1

Q1: Choose the correct answer:

1. The reciprocal of 7 is .... (1 or 17 or $\frac{1}{17}$ or 7)
2. $\frac{5}{6}$ x .... = 1 ($\frac{5}{6}$ or 1 or $\frac{6}{5}$ or zero)
3. If Ahmed has 64 LE and Yasmin has 24 LE, then the ratio of what Yasmin has to what Ahmed has is ....

   (8 : 3 or 3 : 8 or 6 : 8 or 8 : 32)

Q2: Answer the following:

1. 4.2 ÷ 0.07 = ... ÷ 7
2. Farida spends 480 LE in 4 days, then the rate of what she spends is .... LE/day.
3. Nader bought 12 pizza pies and divided them among his friends, each of whom got $\frac{2}{3}$ of the pie. How many friends does Nader have?

   ....

   ....
4. A car consumed 280 liters of gasoline in 4 months. How many liters did the car consume on average in one month?

   ....

   ....
5. If 53 x 31 = 1,643, then 16.43 ÷ 3.1 = ...
6. The ratio between the side of a rhombus and its perimeter is .... : ....
7. Ahmed walks 28 km in a week. Calculate the distance that Ahmed walks per day.

   ....

   ....

Model 2

Q1: Choose the correct answer:

1. If a car covers 240 km in 3 hours, then its speed is .... km/hr.

(70 or 80 or 90 or 110)

2. .... $\div \frac{1}{2} = \frac{1}{3}$ ($\frac{1}{6}$ or 6 or $\frac{3}{1}$ or 2)

3. If 8 : x – 1 = 6 : 12, then the value of x is ....

(17 or 8 or 15 or 7)

Q2: Answer the following:

1. Any number multiplied by its reciprocal equals ....

2. The reciprocal of the number .... is $3\frac{3}{5}$.

3. If 4 : 7 = x : 35, then x – 5 = ...

4. The ratio between two numbers is 4 : 8. If the first number is 18, then the second number is ....

5. Mona bought 9 meters of fabric and paid 214.2 pounds. What is the price of each meter of fabric?

....

....

6. Complete the following ratio table:

1	2	....	....
3	....	9	18

7. Laine reads 360 pages in 240 minutes, and Omar reads 45 pages in 25 minutes. Are they reading in equivalent ratios? Explain your answer.

....

....

Model 3

Q1: Choose the correct answer:

1. Gamal studies for 48 hours in 8 days, then he studies .... hours per day. (5 or 6 or 7 or 8)
2. .... ÷ 3.5 = 1,200 ÷ 35 (1.2 or 12 or 120 or 1,200)
3. If Mark has 18 LE and Ibrahim has 54 LE, then the ratio of what Ibrahim has to what Mark has is .... : .... (1 : 8 or 8 : 3 or 3 : 1 or 6 : 12)

Q2: Answer the following:

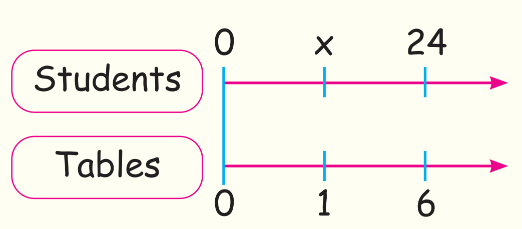
1. The number which has no reciprocal is ....
2. In the ratio 5 : 7, the first term is ...., and the second term is ....
3. Nadia bought $\frac{8}{9}$ kg of apples and she wants to divide them among her three children. What is the share of each child?

....

4. Murad bought 3 notebooks for 4.75 LE each and 5 pens for 1.25 LE each. Calculate the amount of money Murad paid.

....

5. If an orange export company puts every 25 oranges in one box, answer the following:
   a) The number of oranges in 10 boxes = ...
   b) The number of boxes that are enough to contain 225 oranges = ...
6. From the opposite double number line, find the value of x.



....

7. If a printer prints 27 papers in 3 minutes, then it prints .... papers in 8 minutes.

Model 4

Q1: Choose the correct answer:

1. If $\frac{x + 3}{14} = \frac{1}{2}$, then x = ... (2 or 4 or 6 or 8)
2. $\frac{2}{5}$ .... the reciprocal of 5. (< or = or > or ≤)
3. The ratio between two numbers is 4 : 8. If the first number is 18, then the second number is .... (9 or 18 or 36 or 54)

Q2: Answer the following:

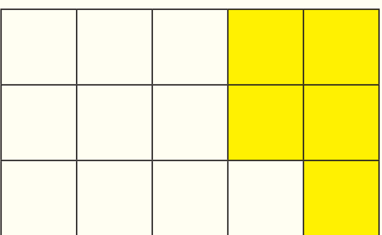
1. If 25 × 33 = 825, then 2.5 × 3.3 = ...
2. The ratio between 360 and 540 is .... : ....
3. Hossam distributed 18 cake molds among a group of children, with each child receiving $\frac{2}{3}$ of a cake mold. How many children received cake?

....

4. Mark bought 16 boxes of juice; the price of each one is 5.5 pounds. How many pounds did he pay the seller?

....

5. Using the opposite figure, complete:

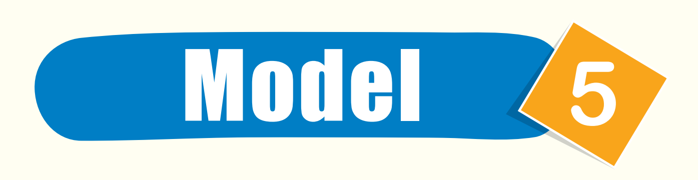


   a) The ratio between the shaded squares and the white squares in the simplest form is .... : ....

   b) The ratio between the shaded squares and all squares in the simplest form is .... : ....

6. If 3 : 5 is equivalent to x : 15, then x = ...
7. In a classroom, if the ratio of the number of boys to the number of girls is 5 to 4 and there are 25 boys in the class, how many girls are in the class?

....



Q1: Choose the correct answer:

1. 3.4 × 0.2 = ... (6.8 or 68 or 0.68 or 0.068)
2. Which of the following ratios is equivalent to 5 : 6?
(20 : 24 or 24 : 20 or 6 : 5 or 24 : 12)
3. 4.8 ÷ 4 .... 12 (> or < or = or otherwise)

Q2: Answer the following:

1. 12.55 × 0.3 = ...
2. In a juice shop: 2 kilograms of oranges are squeezed to serve 7 glasses of orange juice to customers, how many kilograms of oranges are needed to serve 28 glasses of juice to customers?

....

....

....

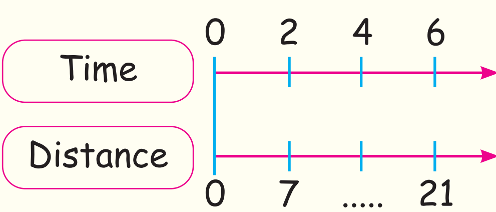
3. If 156 LE is distributed among a group of pupils, with each pupil receiving 6.5 LE, how many pupils are in the group?

....

....

....

4. If Ali bought 5 kg of apples for 150 LE, then the price of 10 kg of apples is .... LE.
5. The missing number in the opposite double number line is ....



6. If 3 : 7 is equivalent to 21 : x, then x = ...
7. If $\frac{A}{B} = \frac{C}{D}$, then A × D = ...

Model Answers

Model 1

1 **1.** $\frac{1}{7}$ **2.** $\frac{6}{5}$ **3.** 3 : 8

2 **1.** 420

2. 120

3. Number of friends = $2 \div \frac{2}{3} = 12 \times \frac{3}{2}$

= 18 friends

4. The rate = 280 ÷ 4 = 70 liter / month.

5. 5.3

6. 1 : 4

7. The distance = 28 ÷ 7 = 4 km/day.

Model 2

1 **1.** 80 **2.** $\frac{1}{6}$ **3.** 17

2 **1.** 1

2. $\frac{5}{18}$

3. 15

4. 36

5. The price = 214.2 ÷ 9 = 23.9 L.E

6.

1	2	3	6
3	6	9	18

7. rate of Laine = $\frac{360}{240} = \frac{3}{2}$

rate of Omar = $\frac{45}{25} = \frac{9}{5}$

Note equal ratios

Because rate of Omar > rate of Laine

Model 3

1 **1.** 6 **2.** 120 **3.** 3 : 1

2 **1.** zero **2.** 5 , 7

3. The share of each child = $\frac{8}{9} \div 3 = \frac{8}{9} \times \frac{1}{3}$

$= \frac{8}{27}$ kg

4. He paid = (3 × 4.75) + (5 × 1.25)

= 14.25 + 6.25 = 20.5 L.E.

5. a) 250 b) 9 boxes

6. 4

7. 72

Model 4

1 **1.** 4 **2.** > **3.** 36

2 **1.** 8.25

2. 2 : 3

3. Number of children = $18 \div \frac{2}{3} = 18 \times \frac{3}{2}$

= 27 children

4. He paid = 16 × 5.5 = 88 L.E.

5. a) 1 : 2 b) 2 : 3

6. 9

7. Number of girls = 20 girls

Model 5

1 **1.** 0.68 **2.** 20 : 24 **3.** <

2 **1.** 3.765

2. Number of kg = 8 kg of orange

3. Number of pupils = 156 ÷ 6.5

= 1,560 ÷ 65 = 24 L.E.

4. 1,500

5. 14

6. 49

7. B × C

المراجعة رقم (4)

اختبار شهر فبراير







February Questions Bank



Question 01 Choose the correct answer

1. $\frac{5}{6} \times .... = 1$
   - (a) 0
   - (b) $\frac{5}{6}$
   - (c) 1
   - (d) $\frac{6}{5}$

2. $6 \div \frac{1}{3} = \cdots$
   - (a) 2
   - (b) 1
   - (c) 18
   - (d) $\frac{3}{6}$

3. $\frac{3}{2} \div \frac{1}{2}$ ..... $\frac{1}{2} \div \frac{3}{2}$
   - (a) >
   - (b) <
   - (c) =
   - (d) other

4. $1.3 \times 2.3 = \cdots$
   - (a) 0.299
   - (b) 299
   - (c) 2.99
   - (d) 29.9

5. $1.3 \times ... = 130$
   - (a) 10
   - (b) 100
   - (c) 0.1
   - (d) 0.01

6. How many $\frac{3}{4}$ is are there in 9 oranges ?
   - (a) 3
   - (b) 12
   - (c) $1\frac{1}{3}$
   - (d) $\frac{1}{4}$

7. $3.5 \div 0.07 = \cdots \div 7$
   - (a) 0.35
   - (b) 35
   - (c) 350
   - (d) 0.350

9. $\frac{1}{5}$ of $50 = \cdots$
   - (a) 5
   - (b) 10
   - (c) 50
   - (d) 25

10. $2\frac{3}{4} \div ... = 1$
    - (a) 11
    - (b) 8
    - (c) $3\frac{2}{4}$
    - (d) $\frac{11}{4}$

11. $\frac{1}{3} \div \frac{1}{6}$ ..... $\frac{2}{5}$ of 5
    - (a) >
    - (b) <
    - (c) =
    - (d) other

12 The reciprocal of 4 is ....

- (a) 0
- (b) 4
- (c) -4
- (d) $\frac{1}{4}$

13 $0.044 \div 0.4 = \cdots$

- (a) 11
- (b) 0.11
- (c) 1.1
- (d) 0.011

14 $273 \div 25 = 2.73 \div \ldots.$

- (a) 25
- (b) 2.5
- (c) 0.25
- (d) 0.025

15 $0.02 \times 0.6 = \cdots$

- (a) 0.012
- (b) 0.12
- (c) 12
- (d) 1.2

16 $\frac{3}{7} = \frac{9}{\ldots}$

- (a) 15
- (b) 27
- (c) 21
- (d) 63

17 $\frac{1}{3} \div \frac{1}{6} = \cdots$

- (a) 1
- (b) $\frac{1}{2}$
- (c) 2
- (d) 3

18 4:10 is equivalent to 8 : ......

- (a) 10
- (b) 2
- (c) 4
- (d) 20

19 3.3 × 3 ..... 33 × 3

- (a) >
- (b) =
- (c) <
- (d) otherwise

20 $\frac{3}{5}$ .... The reciprocal of $\frac{1}{5}$

- (a) >
- (b) =
- (c) <
- (d) otherwise

21 $8 \div \frac{4}{5} =$.....

- (a) $\frac{1}{8}$
- (b) 10
- (c) 8
- (d) $\frac{1}{10}$

22 $\frac{4}{5} \times \ldots = 1$

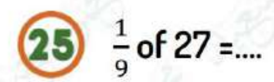
- (a) $\frac{4}{5}$
- (b) 4
- (c) 5
- (d) $\frac{5}{4}$

23 ...... ÷ 0.2 = 1.2

- (a) 24
- (b) 0.24
- (c) 2.4
- (d) 0.024

24 $\frac{3}{5} \times \ldots. = \frac{1}{5}$

- (a) 3
- (b) $\frac{3}{5}$
- (c) 5
- (d) $\frac{1}{3}$



25 $\frac{1}{9}$ of 27 =....

ⓐ 3 ⓑ $\frac{1}{9}$ ⓒ 27 ⓓ $\frac{1}{27}$

26 $... \div \frac{1}{3} = 9$

ⓐ $\frac{1}{3}$ ⓑ 3 ⓒ 27 ⓓ $\frac{1}{27}$

27 Ahmed scored 25 point in 3 basketball games, the ratio scored by Ahmed is.........

ⓐ 75 : 3 ⓑ 3 : 75 ⓒ 25 : 3 ⓓ 3 : 25

28 0.3 × 0.1 × 0.2 =.....

ⓐ 6 ⓑ 0.6 ⓒ 0.06 ⓓ 0.006

29 The simplest form of 220 : 110 is ....

ⓐ 22to 10 ⓑ $\frac{11}{22}$ ⓒ 2:1 ⓓ $\frac{1}{2}$

30 If 3:7 is equivalent to X:21 , then $X = \cdots$

ⓐ 6 ⓑ 49 ⓒ 9 ⓓ 3

31 If the ratio between a and b is 2:3 and the sum of a and b is 35 , then $a = \cdots$

ⓐ 21 ⓑ 5 ⓒ 4 ⓓ 14

32 Which of the following ratios is not equivalent to the three ratios ?

ⓐ $\frac{4}{3}$ ⓑ $\frac{32}{24}$ ⓒ $\frac{16}{6}$ ⓓ $\frac{24}{18}$

33 If the ratio $\frac{3}{8}$ is equivalent to $\frac{15}{x-1}$, then x= $\cdots$

ⓐ 25 ⓑ 40 ⓒ 9 ⓓ 41

34 Which of the following ratios are equivalent?

ⓐ $\frac{3}{4}$ and $\frac{6}{9}$ ⓑ $\frac{2}{5}$ and $\frac{4}{10}$ ⓒ $\frac{12}{14}$ and $\frac{10}{28}$ ⓓ $\frac{2}{3}$ and $\frac{4}{9}$

35 If the ratio x : 4 is equivalent to 3:12 ,then $x+3 = \cdots$

ⓐ 6 ⓑ 3 ⓒ 4 ⓓ 5

36 If the ratio between two numbers is 5:7 and the greater number is 21 , then the smaller number is ......

ⓐ 12 ⓑ 4 ⓒ 10 ⓓ 15

37 If $\frac{18}{12} = \frac{6}{a}$, then a= $\cdots$

ⓐ 3 ⓑ 4 ⓒ 24 ⓓ 2

38 To find the simplest form of the ratio 14:16 , we divide the two terms by ....

(a) 3 (b) 6 (c) 2 (d) 14

39 From the opposite equivalent ratio, $b-a=\cdots$

2	a	10
3	12	b

(a) 12 (b) 7 (c) 15 (d) 22

40 $\frac{8}{10} \div \frac{2}{5} = \cdots$

(a) $\frac{3}{7}$ (b) 1 (c) $3\frac{9}{11}$ (d) 2

41 if 1 : a = 9 : 27, then a = ...

(a) 3 (b) 12 (c) 5 (d) 9

42 which of the following are equivalent?

(a) 5 : 6, 2 :3 (b) 6 : 3, 1:2 (c) 3 :9, 5 :11 (d) 4 : 10, 6 :15

43 ....÷4= 3 ×$\frac{1}{4}$

(a) 3 (b) $\frac{3}{4}$ (c) $\frac{4}{3}$ (d) 12

44 $\frac{1}{3}$ of 24 =⋯

(a) 8 (b) 6 (c) $\frac{6}{4}$ (d) 2

47 How many $\frac{3}{5}$ are there in 9 Apples?

(a) 15 (b) 3 (c) $1\frac{1}{3}$ (d) $\frac{1}{4}$

48 $\frac{45}{18} = \frac{\dots\dots}{2}$

(a) 5 (b) 9 (c) 3 (d) 2

49 Sarah has 3 green apples and 4 red apples, so The ratio between red apples and the total number of apples

(a) 4 : 3 (b) 3 : 4 (c) 3: 7 (d) 4 : 7

50 $\frac{8}{32} = \cdots$

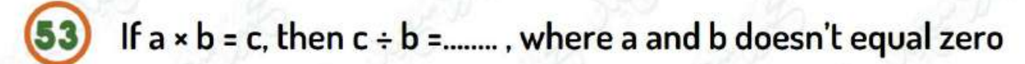
(a) $\frac{4}{8}$ (b) $\frac{16}{64}$ (c) $\frac{1}{2}$ (d) $\frac{9}{33}$

51 if $\frac{15}{x} = \frac{5}{9}$, then x = ...

(a) 3 (b) 5 (c) 15 (d) 27

52  The reciprocal of 6 is ....

ⓐ 0 ⓑ 6 ⓒ -6 ⓓ $\frac{1}{6}$

53  If a × b = c, then c ÷ b =........ , where a and b doesn't equal zero

ⓐ b × a ⓑ c ⓒ a ⓓ b

54 if 7 : 13 = x : 52 , then $x = \cdots$

ⓐ 14 ⓑ 21 ⓒ 28 ⓓ 35

55 $0.37 \times 0.1 = \cdots$

ⓐ 3.7 ⓑ 37 ⓒ 0.370 ⓓ 0.037

56 If $\frac{2}{5} = \frac{x}{15}$, then $x = \cdots$

ⓐ 2 ⓑ 4 ⓒ 6 ⓓ 12

57 $.... \div 0.4 = 0.5$

ⓐ 20 ⓑ 0.20 ⓒ 2 ⓓ 0.020

58 3.1×0.4 ... 3.1×4

ⓐ < ⓑ > ⓒ = ⓓ

59 $16 \div \frac{2}{3} = \cdots$

ⓐ 24 ⓑ 42 ⓒ 8:3 ⓓ 32

60 If 3:5 is equivalent to X:10 , then X = ⋯

ⓐ 6 ⓑ 49 ⓒ 9 ⓓ 3

61 $4.8 \div 0.6 = \cdots \div 6$

ⓐ 0.48 ⓑ 8.4 ⓒ 48 ⓓ 480

62 How many $\frac{1}{10}$ is are there in $\frac{3}{5}$?

ⓐ 3 ⓑ 4 ⓒ 6 ⓓ 8

63 1.2×3.5 .... 0.12×35

ⓐ < ⓑ > ⓒ = ⓓ

64 Which of the following ratios are equivalent?

ⓐ $\frac{5}{10}$ and $\frac{1}{2}$ ⓑ $\frac{5}{11}$ and $\frac{5}{13}$ ⓒ $\frac{12}{14}$ and $\frac{10}{28}$ ⓓ $\frac{2}{3}$ and $\frac{4}{9}$



65 If the ratio 9 : 27 = 1: b ,then $b + 3 = \cdots$

ⓐ 6 ⓑ 3 ⓒ 9 ⓓ 5

66 $4 \div \ldots = 24$

ⓐ 6 ⓑ $\frac{1}{4}$ ⓒ 96 ⓓ $\frac{1}{6}$

67 $0.0045 \times 100 = \cdots$

0.45 ⓑ 45 ⓒ 4.5 ⓓ 0.045

68 If the ratio of the number of blue balls to the number of red balls is 1:5 and the number of red is 30 , then the number of blue is ....

ⓐ 25 ⓑ 5 ⓒ 6 ⓓ 55

69 From the opposite equivalent ratio, b$-a = \cdots$

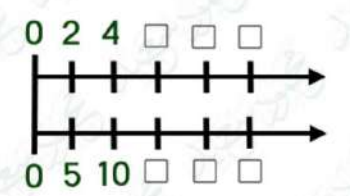
3	6	b
4	a	16

ⓐ 12 ⓑ 4 ⓒ 15 ⓓ 8

Question 02 Complete

1. $5 \div \frac{2}{5} =$ ....
2. If the ratio $\frac{5}{7}$ is equivalent to 25 : X ,then X $-5 =$.................
3. $\frac{1}{2} \div \ldots \ldots . \ldots = \frac{5}{8}$
4. .... $\div 7 = 1$
5. Fourth of 24 =..............................
6. $1\frac{1}{3} \times \ldots \ldots \ldots . . . = \frac{2}{3}$
7. If $24 \times 31 = 744$, then $0.24 \times 3.1 =$..............................
8. $5.21 \div 0.1 =$..............................
9. $\frac{3}{5} \div \frac{4}{7} = \frac{3}{5} \times$..............................
10. $\frac{5}{7} = \frac{10}{\ldots\ldots} = \frac{\ldots\ldots}{21} = \frac{20}{\ldots\ldots}$
11. From the opposite double number line

$\frac{2}{5} = \frac{4}{10} = \frac{\ldots\ldots}{\ldots\ldots} = \frac{\ldots\ldots}{\ldots\ldots} = \frac{\ldots\ldots}{\ldots\ldots}$



12. Find x = ... , y = ... , from the opposite table .

girls	2	4	y
boys	3	x	15

13. If the ratio between a and b is 3 : 5 , and b is 10 , then a =..........................

14. 3.2 × 0.2 = ...

15. $if\ \frac{3}{7} = \frac{6}{14}$, then $3 \times 14 = 7 \times$..........................

16. If $\frac{4}{5} = \frac{x}{20}$, then X =........................

17. The next ratio of 1:3 , 3 to 9 , $\frac{9}{27}$, ...

18. If the ratio $\frac{6}{5}$ is equivalent to 18 : X ,then X -2 =.......................

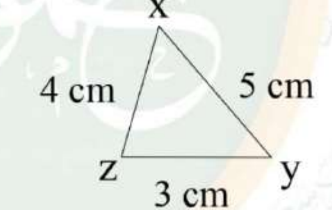
19. If $\frac{3}{x} = \frac{12}{28}$, then 3X =.......................

20. 64 : 48 = ... : .... [in the simplest form]

21. If $\frac{6}{x} = \frac{42}{35}$, then X+ 2 =.......................

22. The first term in the ratio 4 : 9 is ....

23. From the opposite triangle , find the ratio between x y and the perimeter of the triangle is .... : ....



24. if $\frac{4}{9}$ is equivalent to $\frac{x}{18}$, then $x - 4$ =.......................

25. 17× 2.25 =....................

26. 42 : 63 = 2 : ....

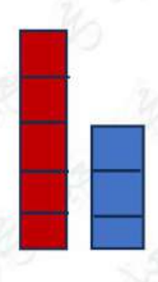
27. if $\frac{x}{3^2} = \frac{2}{1}$, then $x + 2$ =....................

28. Ahmed bought $1\frac{5}{10}$ bag of sweets at a price of $4\frac{5}{10}$ pounds per bag, so what Ahmed pays =...............................

29. $1.3 \div 2.4 = 13 \div$....................

30. 75 × 0.31 .... 7.5 × 3.1

31. The ratio between the number of red squares to the number of blue squares =...............



32. 2÷ $\frac{3}{7}$ =..................

33. $\frac{2}{5}$ of 15 *is*.................



34 $20 \div ………………… = 100$

35 $8.45 \div 0.01$ =..................

36 18 : 12 = …… : …… [in the simplest form]

37 If $\frac{a}{7} = \frac{18}{21}$, then $a + 2$ =..................

38 If $\frac{3}{4} = \frac{6}{8}$, then ....× ……… . $= 3 \times 8$

39 the next ratio of 1:2 , 2:4 , 4:8 , ……… : ………...

40 The ratio between number of triangles and number of squares is ....

41 3.6 ×.................. = 3600

Question 03 — Answer the following questions

1 Find the result :

(a) $2 \div \frac{3}{5}$ (b) $\frac{9}{11} \div \frac{18}{22}$ (C) $\frac{3}{8} \div \frac{1}{4}$ (D) 0.46×0.9 (E) 3 Of $\frac{2}{3}$ (F) $1.6 \div 0.2$

....

2 Rana covered $\frac{2}{5}$ Kilometer in 2 minute, How many Kilometer did she covered in one minute?

....

3 Ahmed bought 8.5 litres of juice , the price of one litre is 13.7 L.E , How much did he pay ?

....

4 you have $\frac{9}{5}$ kg and you want to divide it into pieces the mass of each piece is $\frac{2}{5}kg$. How many pieces can you make?

....

5 sara has 6 liters of juice , she needs to divide them into small bottles of $\frac{2}{3}$ liter each . How many bottles does she need ?

....

6 If the cost of 4 books is 280 L.E what is the cost of 20 books

....



7. Find the value of X in each of the following :-

(a) $\frac{3}{4} = \frac{x+3}{12}$ (b) $\frac{x-2}{3} = \frac{9}{27}$

....

8. If the price of 6 kg of orange is 36 pounds , what is the price of 9 kg of orange ?

....

9. Find each ratio in simplest form : (a) $33:55$ (b) 36:24

....

10. If the ratio between of boys and girls in a class is 7:4 and the number of boys is 56 boys . Find the total pupils in the class.

....

11. If Mahmoud has 4 green balloons and 12 red balloons, what is the ratio between each of them in its simplest form:

(a) Number of green balloons to Number of red balloons.

(b) The total number of balloons to the number of red balloons.

....

12. Hana distributed $\frac{3}{4}$ kilograms of coffee into packages equally, then each package contains $\frac{3}{8}$ kilograms. What is The number of these packages?

....

13. If the price of 5 kg of oranges is 50 pounds, then what is the price of 8 kg of oranges?

....

14. Find the answer for each of the following :

(a) $\frac{5}{3} \div 2$ (b) 9.7×0.4 (c) $9 \div \frac{3}{4}$ (d) $18.5 \div 1.25$

....

15. Find the value of m in each of the following :-

(a) $\frac{2}{3} \times m = \frac{1}{9}$ (b) $\frac{m-3}{3} = \frac{16}{24}$

....

(16) yossef can cover 2km every 7 minutes , calculate the time he must cover 8 km.

....

(17) Find :- (a) $\frac{3}{12} \div \frac{1}{3}$ (b) $5.6 \div 0.7$ (c) 0.32×0.12 (d) $\frac{1}{4}$ of 48

....

(18) A class has 18 boys and 24 girls , complete in the simplest form the ratio between

a) the number of girls and the number of boys

b) the number of boys and the number of girls

c) the number of girls and the number of class students

d) the number of boys and the number of class students

تم بحمد الله ،

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم

Answers



February Questions Bank



Question 01 Choose the correct answer

1) $\frac{5}{6} \times .... = 1$

a) 0 b) $\frac{5}{6}$ c) 1 d) $\frac{6}{5}$

2) $6 \div \frac{1}{3} = \cdots$

a) 2 b) 1 c) 18 d) $\frac{3}{6}$

3) $\frac{3}{2} \div \frac{1}{2}$ ..... $\frac{1}{2} \div \frac{3}{2}$

a) > b) < c) = d) other

4) $1.3 \times 2.3 = \cdots$

a) 0.299 b) 299 c) 2.99 d) 29.9

5) $1.3 \times ... = 130$

a) 10 b) 100 c) 0.1 d) 0.01

6) How many $\frac{3}{4}$ is are there in 9 oranges ?

a) 3 b) 12 c) $1\frac{1}{3}$ d) $\frac{1}{4}$

7) $3.5 \div 0.07 = \cdots \div 7$

a) 0.35 b) 35 c) 350 d) 0.350

9) $\frac{1}{5}$ of $50 = \cdots$

a) 5 b) 10 c) 50 d) 25

10) $2\frac{3}{4} \div ... = 1$

a) 11 b) 8 c) $3\frac{2}{4}$ d) $\frac{11}{4}$

11) $\frac{1}{3} \div \frac{1}{6}$ ..... $\frac{2}{5}$ of 5

a) > b) < c) = d) other

12 The reciprocal of 4 is ....

a) 0 b) 4 c) -4 d) $\frac{1}{4}$

13 $0.044 \div 0.4 = \cdots$

a) 11 b) 0.11 c) 1.1 d) 0.011

14 $273 \div 25 = 2.73 \div ....$

a) 25 b) 2.5 c) 0.25 d) 0.025

15 $0.02 \times 0.6 = \cdots$

a) 0.012 b) 0.12 c) 12 d) 1.2

16 $\frac{3}{7} = \frac{9}{...}$

a) 15 b) 27 c) 21 d) 63

17 $\frac{1}{3} \div \frac{1}{6} = \cdots$

a) 1 b) $\frac{1}{2}$ c) 2 d) 3

18 4:10 is equivalent to 8 : ......

a) 10 b) 2 c) 4 d) 20

19 3.3 × 3 ..... 33 × 3

a) > b) = c) < d) otherwise

20 $\frac{3}{5}$ .... The reciprocal of $\frac{1}{5}$

a) > b) = c) < d) otherwise

21 $8 \div \frac{4}{5} =$.....

a) $\frac{1}{8}$ b) 10 c) 8 d) $\frac{1}{10}$

22 $\frac{4}{5} \times ... = 1$

a) $\frac{4}{5}$ b) 4 c) 5 d) $\frac{5}{4}$

23 ...... ÷ 0.2 = 1.2

a) 24 b) 0.24 c) 2.4 d) 0.024

24 $\frac{3}{5} \times .... = \frac{1}{5}$

a) 3 b) $\frac{3}{5}$ c) 5 d) $\frac{1}{3}$

25 $\frac{1}{9}$ of 27 =....

ⓐ 3 ⓑ $\frac{1}{9}$ ⓒ 27 ⓓ $\frac{1}{27}$

26 $\ldots \div \frac{1}{3} = 9$

ⓐ $\frac{1}{3}$ ⓑ 3 ⓒ 27 ⓓ $\frac{1}{27}$

27 Ahmed scored 25 point in 3 basketball games, the ratio scored by Ahmed is.........

ⓐ 75 : 3 ⓑ 3 : 75 ⓒ 25 : 3 ⓓ 3 : 25

28 0.3 × 0.1 × 0.2 =.....

ⓐ 6 ⓑ 0.6 ⓒ 0.06 ⓓ 0.006

29 The simplest form of 220 : 110 is ....

ⓐ 22to 10 ⓑ $\frac{11}{22}$ ⓒ 2:1 ⓓ $\frac{1}{2}$

30 If 3:7 is equivalent to X:21 , then X $= \cdots$

ⓐ 6 ⓑ 49 ⓒ 9 ⓓ 3

31 If the ratio between a and b is 2:3 and the sum of a and b is 35 , then a $= \cdots$

ⓐ 21 ⓑ 5 ⓒ 4 ⓓ 14

32 Which of the following ratios is not equivalent to the three ratios ?

ⓐ $\frac{4}{3}$ ⓑ $\frac{32}{24}$ ⓒ $\frac{16}{6}$ ⓓ $\frac{24}{18}$

33 If the ratio $\frac{3}{8}$ is equivalent to $\frac{15}{x-1}$, then x= $\cdots$

ⓐ 25 ⓑ 40 ⓒ 9 ⓓ 41

34 Which of the following ratios are equivalent?

ⓐ $\frac{3}{4}$ and $\frac{6}{9}$ ⓑ $\frac{2}{5}$ and $\frac{4}{10}$ ⓒ $\frac{12}{14}$ and $\frac{10}{28}$ ⓓ $\frac{2}{3}$ and $\frac{4}{9}$

35 If the ratio x : 4 is equivalent to 3:12 ,then $x+3 = \cdots$

ⓐ 6 ⓑ 3 ⓒ 4 ⓓ 5

36 If the ratio between two numbers is 5:7 and the greater number is 21 , then the smaller number is ......

ⓐ 12 ⓑ 4 ⓒ 10 ⓓ 15

37 If $\frac{18}{12} = \frac{6}{a}$, then a= $\cdots$

ⓐ 3 ⓑ 4 ⓒ 24 ⓓ 2

38 To find the simplest form of the ratio 14:16 , we divide the two terms by ....

a) 3 b) 6 c) 2 d) 14

39 From the opposite equivalent ratio, b$-a = \cdots$

2	a	10
3	12	b

a) 12 b) 7 c) 15 d) 22

40 $\frac{8}{10} \div \frac{2}{5} = \cdots$

a) $\frac{3}{7}$ b) 1 c) $3\frac{9}{11}$ d) 2

41 if 1 : a = 9 : 27, then a = ...

a) 3 b) 12 c) 5 d) 9

42 which of the following are equivalent?

a) 5 : 6, 2 :3 b) 6 : 3, 1:2 c) 3 :9, 5 :11 d) 4 : 10, 6 :15

43 ....$\div 4 = 3 \times \frac{1}{4}$

a) 3 b) $\frac{3}{4}$ c) $\frac{4}{3}$ d) 12

44 $\frac{1}{3}$ of 24 =⋯

a) 8 b) 6 c) $\frac{6}{4}$ d) 2

47 How many $\frac{3}{5}$ are there in 9 Apples?

a) 15 b) 3 c) $1\frac{1}{3}$ d) $\frac{1}{4}$

48 $\frac{45}{18} = \frac{\cdots\cdots}{2}$

a) 5 b) 9 c) 3 d) 2

49 Sarah has 3 green apples and 4 red apples, so The ratio between red apples and the total number of apples

a) 4 : 3 b) 3 : 4 c) 3: 7 d) 4 : 7

50 $\frac{8}{32} = \cdots$

a) $\frac{4}{8}$ b) $\frac{16}{64}$ c) $\frac{1}{2}$ d) $\frac{9}{33}$

51 if $\frac{15}{x} = \frac{5}{9}$, then x = ...

a) 3 b) 5 c) 15 d) 27

52 The reciprocal of 6 is ....

(a) 0 (b) 6 (c) -6 (d) $\frac{1}{6}$

53 If a × b = c, then c ÷ b =........ , where a and b doesn't equal zero

(a) b × a (b) c (c) a (d) b

54 if 7 : 13 = x : 52 , then $x = \cdots$

(a) 14 (b) 21 (c) 28 (d) 35

55 $0.37 \times 0.1 = \cdots$

(a) 3.7 (b) 37 (c) 0.370 (d) 0.037

56 If $\frac{2}{5} = \frac{x}{15}$, then $x = \cdots$

(a) 2 (b) 4 (c) 6 (d) 12

57 $.... \div 0.4 = 0.5$

(a) 20 (b) 0.20 (c) 2 (d) 0.020

58 $3.1 \times 0.4 \; ... \; 3.1 \times 4$

(a) < (b) > (c) = (d)

59 $16 \div \frac{2}{3} = \cdots$

(a) 24 (b) 42 (c) 8:3 (d) 32

60 If 3:5 is equivalent to X:10 , then X = ⋯

(a) 6 (b) 49 (c) 9 (d) 3

61 $4.8 \div 0.6 = \cdots \div 6$

(a) 0.48 (b) 8.4 (c) 48 (d) 480

62 How many $\frac{1}{10}$ is are there in $\frac{3}{5}$?

(a) 3 (b) 4 (c) 6 (d) 8

63 $1.2 \times 3.5 \; .... \; 0.12 \times 35$

(a) < (b) > (c) = (d)

64 Which of the following ratios are equivalent?

(a) $\frac{5}{10}$ and $\frac{1}{2}$ (b) $\frac{5}{11}$ and $\frac{5}{13}$ (c) $\frac{12}{14}$ and $\frac{10}{28}$ (d) $\frac{2}{3}$ and $\frac{4}{9}$

65 If the ratio $9:27 = 1:b$,then $b + 3 = \cdots$

(a) 6 (b) 3 (c) 9 (d) 5

66 $4 \div \ldots = 24$

(a) 6 (b) $\frac{1}{4}$ (c) 96 (d) $\frac{1}{6}$

67 $0.0045 \times 100 = \cdots$

0.45 (b) 45 (c) 4.5 (d) 0.045

68 If the ratio of the number of blue balls to the number of red balls is 1:5 and the number of red is 30 , then the number of blue is ....

(a) 25 (b) 5 (c) 6 (d) 55

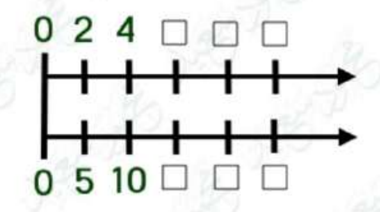
69 From the opposite equivalent ratio, $b - a = \cdots$

3	6	b
4	a	16

(a) 12 (b) 4 (c) 15 (d) 8

Question 02 Complete

1. $5 \div \frac{2}{5} = \cdots 12\frac{1}{2}$
2. If the ratio $\frac{5}{7}$ is equivalent to 25 : X ,then $X - 5 = \cdots 30$
3. $\frac{1}{2} \div \ldots \frac{4}{5} \ldots = \frac{5}{8}$
4. ...7... $\div 7 = 1$
5. Fourth of $24 = \cdots 6$ ....
6. $1\frac{1}{3} \times \ldots \frac{1}{2} .. = \frac{2}{3}$
7. If $24 \times 31 = 744$, then $0.24 \times 3.1 = \cdots 0.744$ .....
8. $5.21 \div 0.1 = \cdots 52.1$ ....
9. $\frac{3}{5} \div \frac{4}{7} = \frac{3}{5} \times \ldots \frac{7}{4} \ldots$
10. $\frac{5}{7} = \frac{10}{..14....} = \frac{..15...}{21} = \frac{20}{..28...}$
11. From the opposite double number line
$\frac{2}{5} = \frac{4}{10} = \frac{6}{15} = \frac{8}{20} = \frac{10}{25}$



(12) Find x = ...10.... , y = ...6....... , from the opposite table .

girls	2	4	y
boys	3	x	15

(13) If the ratio between a and b is 3 : 5 , and b is 10 , then a = ⋯ 6 ...

(14) 3.2 × 0.2 = ...0.64...

(15) $if\ \frac{3}{7} = \frac{6}{14}$, $then\ 3 \times 14 = 7 \times$ ... 6 ....

(16) If $\frac{4}{5} = \frac{x}{20}$, then X = ⋯ 16 ...

(17) The next ratio of 1:3 , 3 to 9 , $\frac{9}{27}$, ...27:81.....

(18) If the ratio $\frac{6}{5}$ is equivalent to 18 : X ,then X −2 = ⋯ 13 ...

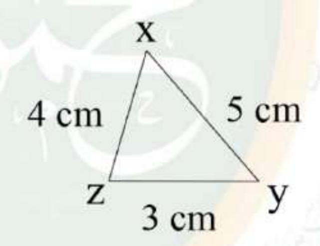
(19) If $\frac{3}{x} = \frac{12}{28}$, then 3X = ⋯21...

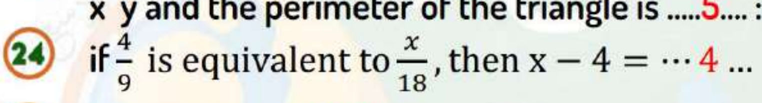
(20) 64 : 48 = ... 4. : ... 3. [in the simplest form]

(21) If $\frac{6}{x} = \frac{42}{35}$, then X+ 2 = ⋯ 7 ...

(22) The first term in the ratio 4 : 9 is ...4..

(23) From the opposite triangle , find the ratio between x y and the perimeter of the triangle is .....5.... : ....12.....





(24) if $\frac{4}{9}$ is equivalent to $\frac{x}{18}$, then x − 4 = ⋯ 4 ...

(25) 17× 2.25 = ⋯38.25....

(26) 42 : 63 = 2 : ...3....

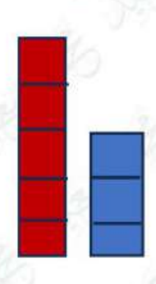
(27) if $\frac{x}{3^2} = \frac{2}{1}$, then x + 2 = ⋯20...

(28) Ahmed bought $1\frac{5}{10}$ bag of sweets at a price of $4\frac{5}{10}$ pounds per bag, so what Ahmed pays =....... 6.75...

(29) 1.3 ÷ 2.4 = 13 ÷ .... 24....

(30) 75 × 0.31 ....=....... 7.5 × 3.1

(31) The ratio between the number of red squares to the number of blue squares =.......5 : 3 ......



(32) $2 \div \frac{3}{7} = 4\frac{2}{3}$

(33) $\frac{2}{5}$ of 15 is ... 6.

(34) $20 \div \frac{1}{5} = 100$

(35) $8.45 \div 0.01 = 845$

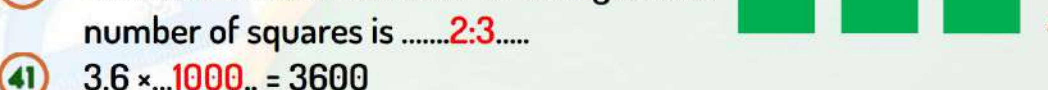
(36) 18 : 12 = ...3. : ...2. [in the simplest form]

(37) If $\frac{a}{7} = \frac{18}{21}$, then $a + 2 = \cdots 8$.

(38) If $\frac{3}{4} = \frac{6}{8}$, then ...6.× ... 4. = 3 × 8

(39) the next ratio of 1:2 , 2:4 , 4:8 , ...8 : 16...

(40) The ratio between number of triangles and number of squares is ....2:3.....



(41) 3.6 ×...1000.. = 3600

Question 03 Answer the following questions

(1) Find the result :

(a) $2 \div \frac{3}{5}$ (b) $\frac{9}{11} \div \frac{18}{22}$ (C) $\frac{3}{8} \div \frac{1}{4}$ (D) 0.46 × 0.9 (E) 3 Of $\frac{2}{3}$ (F) 1.6 ÷ 0.2

(a) $3\frac{1}{3}$ (b) $\frac{9}{11} \times \frac{22}{18} = 1$ (C) $\frac{3}{8} X \frac{4}{1} = 1\frac{1}{2}$ (D) 0.414 (E) 3 X $\frac{2}{3}$ = 2 (F) 16 ÷ 2 = 8

(2) Rana covered $\frac{2}{5}$ Kilometer in 2 minute, How many Kilometer did she covered in one minute?

$\frac{2}{5} \div 2 = \frac{1}{5}$ km

(3) Ahmed bought 8.5 litres of juice , the price of one litre is 13.7 L.E , How much did he pay ?

8.5 x 13.7 = 116.45 pounds

(4) you have $\frac{9}{5}$ kg and you want to divide it into pieces the mass of each piece is $\frac{2}{5} kg$. How many pieces can you make?

$\frac{9}{5} \div \frac{2}{5} = \frac{9}{2} = 4\frac{1}{2}$ pieces

(5) sara has 6 liters of juice , she needs to divide them into small bottles of $\frac{2}{3}$ liter each . How many bottles does she need ?

$6 \div \frac{2}{3} = 6 \times \frac{3}{2} = \frac{18}{2} = 9$ bottles

6 If the cost of 4 books is 280 L.E what is the cost of 20 books

$\frac{280}{4} = 70\ le$, 70 x 20 = 1400 LE

7 Find the value of X in each of the following :-

(a) $\frac{3}{4} = \frac{x+3}{12}$ (b) $\frac{x-2}{3} = \frac{9}{27}$

$(a)\ 9 = x + 3$ $(b)\ x - 2 = 1$

$x = 6$ $x = 3$

8 If the price of 6 kg of orange is 36 pounds , what is the price of 9 kg of orange ?

36 ÷ 6 = 6 le /// 6 × 9 = 54 le

9 Find each ratio in simplest form : (a) 33:55 (b) 36:24

$(a) 3:5$ $(b) 3:2$

10 If the ratio between of boys and girls in a class is 7:4 and the number of boys is 56 boys . Find the total pupils in the class.

$boys: girls$

$7:4$

$56:a$

$a = 32$

$the\ total = 56 + 32 = 88$

11 If Mahmoud has 4 green balloons and 12 red balloons, what is the ratio between each of them in its simplest form:

(a) Number of green balloons to Number of red balloons.

(b) The total number of balloons to the number of red balloons.

(a) $4 : 12 = 1:3$ (b) 16 :12 = 4: 3

12 Hana distributed $\frac{3}{4}$ kilograms of coffee into packages equally, then each package contains $\frac{3}{8}$ kilograms. What is The number of these packages?

The number of packages = $\frac{3}{4} \div \frac{3}{8} = 2$ packages .

13 If the price of 5 kg of oranges is 50 pounds, then what is the price of 8 kg of oranges?

The price of 1 kg = 50 ÷ 5 = 10 pounds

The price of 8 kg = 10 × 8 = 80 pounds



14 Find the answer for each of the following :

(a) $\frac{5}{3} \div 2$ (b) 9.7×0.4 (c) $9 \div \frac{3}{4}$ (d) $18.5 \div 1.25$

(a) $\frac{5}{3} \times \frac{1}{2} = \frac{5}{6}$ (b) 3.88 (c) 12 (d) 14.8

15 Find the value of m in each of the following :-

(a) $\frac{2}{3} \times m = \frac{1}{9}$ (b) $\frac{m-3}{3} = \frac{16}{24}$

$a)$ $\frac{1}{9} \div \frac{2}{3} = \frac{1}{6}$ // b) $m-3 = 2$ $m = 2 + 3 = 5$

16 yossef can cover 2km every 7 minutes , calculate the time he must cover 8 km.

$\frac{2km}{7min} = \frac{8km}{a}$, then a = 7 × 4 = 28 min

17 Find :- (a) $\frac{3}{12} \div \frac{1}{3}$ (b) $5.6 \div 0.7$ (c) 0.32×0.12 (d) $\frac{1}{4}$ of 48

(a) $\frac{3}{12} \times 3 = \frac{9}{12} = \frac{3}{4}$ (b) $= 8$ (c) $= 0.0384$ (d) $\frac{1}{4} \times 48 = 12$

18 A class has 18 boys and 24 girls , complete in the simplest form the ratio between

a) the number of girls and the number of boys 4:3

b) the number of boys and the number of girls 3:4

c) the number of girls and the number of class students 4:7

d) the number of boys and the number of class students 3:7

تم بحمد الله ،

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم

حمل الآن

مجانا وحصريا

المراجعة رقم (5)

اختبار شهر فبراير





Remember Before Answering:

MULTIPYING FRACTIONS

1.Multipy 2.Multipy 3.Simplfiy	Fraction multiplied by a fraction	Whole number multiplied by a fraction	Fraction multiplied a mixed number
Step 1: Write whole number as fraction. Write mixed number as improper fraction.	$\frac{2}{3} \times \frac{3}{4}$	$9 \times \frac{2}{5}$ ↓ $\frac{9}{1} \times \frac{2}{5}$	$\frac{2}{3} \times 2\frac{1}{3}$ ↓ $\frac{2}{3} \times \frac{7}{3}$
Step 2: Multiply the numerators	$\frac{2}{3} \times \frac{3}{4} = \frac{6}{\ }$	$\frac{9}{1} \times \frac{2}{5} = \frac{18}{\ }$	$\frac{2}{3} \times \frac{7}{3} = \frac{7}{\ }$
Step 3: Multiply the denominators	$\frac{2}{3} \times \frac{3}{4} = \frac{6}{12}$	$\frac{9}{1} \times \frac{2}{5} = \frac{18}{5}$	$\frac{2}{3} \times \frac{7}{3} = \frac{14}{9}$
Step 4: Write answer in simplest terms	$\frac{6}{12} = \frac{1}{2}$	$\frac{18}{5} = 3\frac{3}{5}$	$\frac{14}{9} = \frac{5}{19}$



MULTIPYING FRACTIONS

Keep	Change	Flip	Fraction divides by a fraction	Whole number divided by a fraction	Fraction divided by a a mixed number
First fraction stays the same	Operation changes from ÷10×	Flip 2nd fraction for reciprocal			
Step 1: Write whole number as fraction. Write mixed number as improper fraction.			$\frac{2}{3} \div \frac{1}{3}$	$9 \div \frac{1}{3}$ $\frac{9}{1} \div \frac{1}{3}$	$\frac{2}{3} \div 2\frac{1}{3}$ $\frac{2}{3} \div \frac{7}{3}$
Step 2: Find the reciprocal of the divisor (the number you are dividing by).			$\frac{2}{3} \div \frac{3}{1}$	$\frac{9}{1} \div \frac{3}{1}$	$\frac{2}{3} \div \frac{3}{7}$
Step 3: The reciprocal allows you to change the operation from division to multiplication			$\frac{2}{3} \times \frac{3}{1}$	$\frac{9}{1} \times \frac{3}{1}$	$\frac{2}{3} \times \frac{3}{7}$
Step 4: Multiply the fraction			$\frac{2}{3} \times \frac{3}{1} = \frac{6}{3}$	$\frac{9}{1} \times \frac{3}{1} = \frac{27}{1}$	$\frac{2}{3} \times \frac{3}{7} = \frac{6}{21}$
Step 5: rite the answer in simplest terms.			$\frac{6}{3} = 2$	$\frac{27}{1} = 27$	$\frac{6}{21} = \frac{2}{7}$

Multiplying Decimals

0.151×2.3

1. Line up #'s.
   Longer # on top

2. Multiply like usual.

3. Box digits behind decimal.

4. Start in the back move decimal that many spaces to the left.

```
   0.151
×    2.3     4
---------
   0 4 5 3
 0 3 0 2 ∅ ←
---------
placeholder
 0 3 4 7 3
   0.3473
```

3.2 × 4

```
    2
   1.5
×  1.5
------
    75
+  150
------
   2.25
```

```
   3.2   ✗
×  4.0
------
line up #' s
```

```
   3.2   ✓
×    4
------
```

5.722 × 4.1

```
   3.2   ✗
×  4.0
------
longer # on top
```

```
   5.722   ✓
×    4.1
--------
```

Dividing a Decimal by a whole Number

```
    0.6
3 | 1.8
  - 0
    1 8
  - 1 8
      0
```

Step1: Move the decimal ↑

Step2: Ignore the decimal

Step3: Divide

Dividing a Decimal by a Decimal

0.3 | 0.2.4

Re-write

```
     00.8
3 | 02.4
   - 0 ↓
    02
   - 0
     24
   - 24
      0
```

Step1: Move the decimal in the divisor to the right to mathe make it a whole #

Step2: Move the decimal in the divided to the right the same number of times.

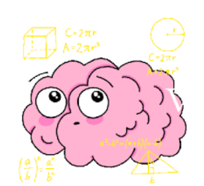
Step3: Re-write the problem

Step4: Move the decimal up.

SOLVE!!







Choose the correct answer:

1 If 3 : 5 = 12 : 4 x, then x = ...

ⓐ 20 ⓑ 24 ⓒ 5 ⓓ 10

2 The number .... is a reciprocal of itself.

ⓐ 0 ⓑ 2 ⓒ 1 ⓓ $\frac{1}{2}$

3 $\frac{2}{5}$ .... the reciprocal of 5

ⓐ < ⓑ = ⓒ > ⓓ ≤

4 Which ratio of the following is in the simplest form?

ⓐ $\frac{3}{12}$ ⓑ $\frac{7}{21}$ ⓒ $\frac{9}{17}$ ⓓ $\frac{5}{30}$

5 The ratio 9 : 12 in the simplest form equals ....

ⓐ $\frac{1}{2}$ ⓑ $\frac{1}{3}$ ⓒ $\frac{3}{4}$ ⓓ $\frac{2}{3}$

6 .... are equivalent ratios.

ⓐ $\frac{2}{6}$, $\frac{9}{18}$ ⓑ $\frac{12}{15}$, $\frac{16}{20}$ ⓒ $\frac{6}{7}$, $\frac{12}{21}$ ⓓ $\frac{2}{3}$, $\frac{5}{10}$

7 5 : x = 0.2, then x = ...

ⓐ 5 ⓑ 10 ⓒ 25 ⓓ 0,5



8 $\frac{3}{4} \times$ ………… $= 1$

ⓐ 0 ⓑ 1 ⓒ $\frac{4}{3}$ ⓓ $\frac{3}{4}$

9 The reciprocal of the number ………… is $1\frac{2}{3}$.

ⓐ $2\frac{1}{3}$ ⓑ $1\frac{3}{2}$ ⓒ $\frac{3}{5}$ ⓓ $\frac{5}{2}$

10 The ratio between the perimeter of an equilateral triangle and its side length = …………

ⓐ 1 : 4 ⓑ 4 : 1 ⓒ 1 : 3 ⓓ 3 : 1

11 If x : 15 = 1 : 3, then x + 3 = …………

ⓐ 5 ⓑ 8 ⓒ 9 ⓓ 11

12 $\frac{2}{3} \div \frac{1}{5} =$ …………

ⓐ $\frac{2}{3} \times 5$ ⓑ $\frac{3}{2} \times 5$ ⓒ $\frac{3}{2} \times \frac{1}{5}$ ⓓ $\frac{2}{3} \times \frac{1}{5}$

13 ………… $\div \frac{1}{4} = \frac{1}{3}$

ⓐ $\frac{3}{4}$ ⓑ $\frac{1}{12}$ ⓒ 12 ⓓ $\frac{4}{3}$

14 $\frac{14}{15}$ and $\frac{3}{4}$ are …………

ⓐ equivalent ratios ⓑ not equivalent ratios

15 The ratio between two number is 3:5. If the first number is 9 then the second number is …………

ⓐ 8 ⓑ 10 ⓒ 15 ⓓ 20

16 If $3x = 4y$ then $x : y =$ ………… : …………

ⓐ 3 : 4 ⓑ 3 : 7 ⓒ 7 : 4 ⓓ 4 : 3

17 The ratio of two numbers is 1 : 4. If the first number is 7, then the second number is …………

ⓐ 28 ⓑ 14 ⓒ 20 ⓓ 16

18 If 8 : x-1 = 6 : 12, then the value of x = …………

ⓐ 17 ⓑ 8 ⓒ 15 ⓓ 7

19 The division operation represented by the following tape diagram is ………

ⓐ $\frac{2}{3} \div 2$ ⓑ $\frac{2}{3} \div 3$

ⓒ $\frac{2}{3} \div 4$ ⓓ $\frac{2}{3} \div \frac{1}{2}$

20 ………… ÷ ………… $= \frac{4}{7} \times \frac{5}{4}$

ⓐ $\frac{7}{4} \div \frac{5}{4}$ ⓑ $\frac{7}{4} \div \frac{4}{5}$ ⓒ $\frac{4}{7} \div \frac{5}{4}$ ⓓ $\frac{4}{7} \div \frac{4}{5}$



21 Which ratio of the following equals a third?

ⓐ $\frac{4}{16}$ ⓑ $\frac{5}{20}$ ⓒ $\frac{7}{28}$ ⓓ $\frac{10}{30}$

22 175 : 125 = ………… : …………

ⓐ 5 : 3 ⓑ 5 : 4 ⓒ 2 : 3 ⓓ 7 : 5

23 If 1 : x = 0.8, then x = …………

ⓐ 2 ⓑ 8 ⓒ 5 ⓓ $1\frac{1}{4}$

24 The division operation represented by the following tape diagram is ….

ⓐ $3 \div \frac{1}{2}$ ⓑ $3 \div \frac{1}{3}$ ⓒ $3 \div \frac{1}{4}$ ⓓ $2 \div \frac{2}{3}$

25 Any number multiplied by its reciprocal equals ……

ⓐ 0 ⓑ 1

ⓒ the same number ⓓ twice the number

26 $\frac{1}{2}$ is equivalent to …………

ⓐ $\frac{7}{14}$ ⓑ $\frac{15}{14}$ ⓒ $\frac{15}{25}$ ⓓ $\frac{35}{25}$

27 If an amount of food is distributed between two people in the ratio 4 : 3, the what the first person took = ………… the total.

ⓐ $\frac{3}{4}$ ⓑ $\frac{3}{7}$ ⓒ $\frac{4}{7}$ ⓓ $\frac{4}{3}$

28 The ratio between the perimeter of a square to its side length is………… : …………

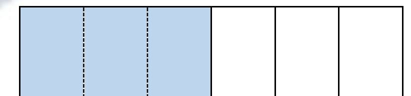
ⓐ 4 : 1 ⓑ 1 : 3 ⓒ 3 : 1 ⓓ 1 : 4

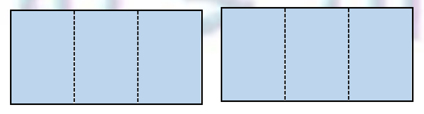
29 2 : 9 is equivalent to …………

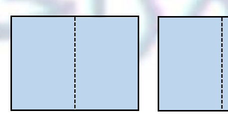
ⓐ 9 : 2 ⓑ 18 : 81 ⓒ 81 : 4 ⓓ 20 : 45

30 The tape diagram representing the division process "$\frac{1}{2} \div 2$" is …………

ⓐ 

ⓑ 

ⓒ 

ⓓ 

31 The reciprocal of $\frac{2}{7}$ is …………

ⓐ 2 ⓑ $\frac{7}{2}$ ⓒ 7 ⓓ $\frac{2}{7}$



32 $7.1 \times 0.3 =$ …………

ⓐ 0.213 ⓑ 2.13 ⓒ 21.3 ⓓ 213

33 35 : 20 = ………… : …………

ⓐ 5 : 4 ⓑ 4 : 7 ⓒ 5 : 7 ⓓ 7 : 4

34 If $\frac{3}{7} = \frac{12}{x}$, then x = …………

ⓐ 49 ⓑ 14 ⓒ 21 ⓓ 28

35 If Gana has 45 LE and Sama has 54 LE, then the ratio of what Sama has to Gana is ………… : …………

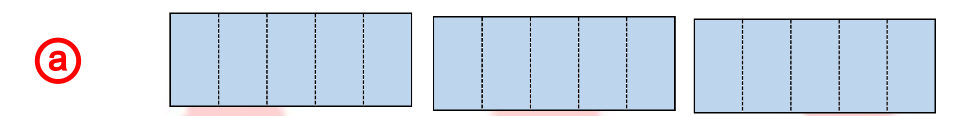
ⓐ 5 : 6 ⓑ 6 : 5 ⓒ 9 : 2 ⓓ 7 : 9

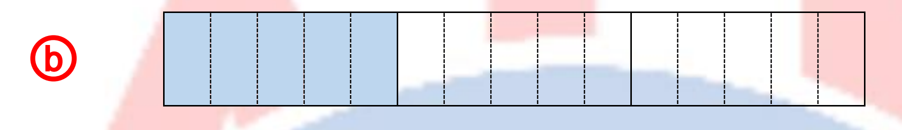
36 5.3 pounds = ………… piasters

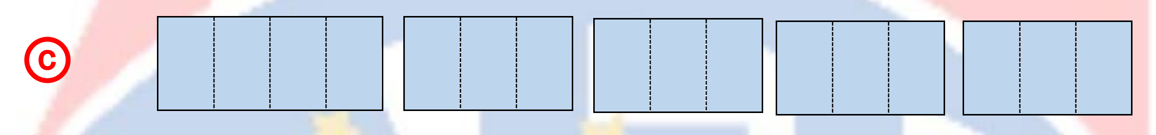
ⓐ 5,300 ⓑ 530 ⓒ 53 ⓓ 5,3

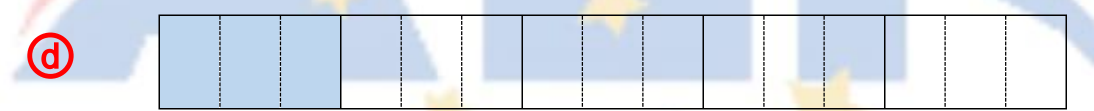


37 The tape diagram representing the division process "$5 \div \frac{1}{3}$" is …………

ⓐ 

ⓑ 

ⓒ 

ⓓ 

38 The reciprocal of 9 is …………

ⓐ 1 ⓑ $\frac{1}{9}$ ⓒ 19 ⓓ 9

39 $\frac{3}{6} \div$ ………… $= 1$

ⓐ 2 ⓑ $\frac{1}{2}$ ⓒ 6 ⓓ $\frac{6}{3}$

40 $63 \div 0.7 =$ ………… $\div 7$

ⓐ 0.63 ⓑ 630 ⓒ 63 ⓓ 6.3

41 Which ratio of the following equals to $\frac{1}{5}$?

ⓐ $\frac{6}{12}$ ⓑ $\frac{4}{20}$ ⓒ $\frac{5}{12}$ ⓓ $\frac{5}{20}$



42 $24 : 48 =$ ………… : …………

ⓐ 6 :18 ⓑ 5 : 4 ⓒ 1 : 2 ⓓ 3 : 5

43 2 a = 7 b then b : a = ………… : …………

ⓐ 2 :7 ⓑ 7 : 2 ⓒ 2 : 9 ⓓ 9 : 2

44 4 ………… the reciprocal of $\frac{1}{4}$

ⓐ > ⓑ = ⓒ < ⓓ otherwise

45 0.38×0.07 ………… 0.38×7

ⓐ > ⓑ < ⓒ = ⓓ otherwise

46 ………… $\div 0.2 = 1.2$

ⓐ 24 ⓑ 0.24 ⓒ 2.4 ⓓ 0.024

47 If $\frac{4}{5} = \frac{16}{c}$, then C = …………

ⓐ 15 ⓑ 20 ⓒ 24 ⓓ 28

48 $\frac{1}{4} \div \frac{1}{8} =$ …………

ⓐ 2 ⓑ $\frac{1}{2}$ ⓒ 1 ⓓ 3



49 The quotient of $\frac{3}{4} \div 6$ is ....

ⓐ $\frac{1}{3}$ ⓑ $\frac{1}{4}$ ⓒ $\frac{1}{8}$ ⓓ $\frac{1}{6}$

50 The reciprocal of $\frac{1}{8}$ is ....

ⓐ 1 ⓑ 8 ⓒ $\frac{1}{8}$ ⓓ 18

51 $\frac{4}{....} = \frac{12}{60}$

ⓐ 5 ⓑ 6 ⓒ 8 ⓓ

20

52 0.95 × .... = 950

ⓐ 10 ⓑ 100 ⓒ 1000 ⓓ

0.01

53 .... $\div \frac{1}{3} = 9$

ⓐ $\frac{1}{3}$ ⓑ 27 ⓒ 3 ⓓ $\frac{1}{27}$

54 The quotient of $6 \div \frac{3}{4}$ is ....

ⓐ $\frac{1}{6}$ ⓑ 8 ⓒ 6 ⓓ $\frac{1}{8}$





55 3.3×7 ………… 33×7

ⓐ $>$ ⓑ $<$ ⓒ $=$ ⓓ otherwise

56 $\frac{3}{5}$ ………… the reciprocal of $\frac{1}{5}$

ⓐ $>$ ⓑ $<$ ⓒ $=$ ⓓ otherwise

57 3 : 7 is equivalent to 21 : …………

ⓐ 9 ⓑ 21 ⓒ 63 ⓓ 49

58 $\frac{3}{8} \times$ ………… $= 1$

ⓐ 3 ⓑ 8 ⓒ $\frac{3}{8}$ ⓓ $\frac{8}{3}$

59 The next ratio in the pattern $\frac{1}{8}, \frac{2}{16}, \frac{3}{24}$ is …………

ⓐ $\frac{32}{4}$ ⓑ $\frac{4}{32}$ ⓒ $\frac{4}{24}$ ⓓ 32

60 $\frac{1}{2} \div \frac{1}{6}$ ………… $\frac{3}{4}$

ⓐ $<$ ⓑ $>$ ⓒ $=$ ⓓ otherwise

61 6.1×0.9 ………… 6.1×9

ⓐ $<$ ⓑ $>$ ⓒ $=$ ⓓ otherwise





62 If $\frac{3}{4} = \frac{15}{A}$, then A = …………

ⓐ 15 ⓑ 20 ⓒ 24 ⓓ 28

63 ………… ÷ 0.3 = 0.8

ⓐ 24 ⓑ 0.24 ⓒ 2.4 ⓓ 0.024

64 The ratio of 50 : 25 is ………… (in the simplest form)

ⓐ 1 : 2 ⓑ 2 : 1 ⓒ 1 : 4 ⓓ 4 : 1

65 $12 \div \frac{3}{8} =$ …………

ⓐ 36 ⓑ 32 ⓒ 96 ⓓ 48

66 $0.0022 \times 100 =$ …………

ⓐ 0.022 ⓑ 0.22 ⓒ 2.2 ⓓ 22

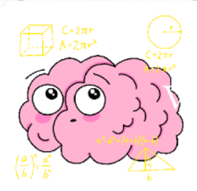
67 $3.5 \times 1.4 =$ …………

ⓐ 4.9 ⓑ 49 ⓒ 0.49 ⓓ 0.04

68 $\frac{3}{8} \div \frac{3}{4} =$ …………

ⓐ $\frac{1}{2}$ ⓑ 2 ⓒ 1 ⓓ 3





Solve the following exercises:

1 The ratio between height of Khaled and Seif 3 : 2 if height of Seif 120cm. Find the height of Khaled

2 Omar covered $\frac{3}{5}$ of kilometer in 3 laps. What is the distance he covered in one lap?

3 Ahmed bought $\frac{13}{14}$ kg of fishing bait and wants to divide it into pieces with a mass of $\frac{2}{7}$ kg, how many pieces can he make?



4 Suppose you have $\frac{7}{8}$ kg of clay, and you want to cut it into equal pieces, each with a mass of $\frac{1}{4}$ kg, how many pieces can you from?

5 Gift wrapping tape is 3 meters long and needs to be cut into equal pieces of $\frac{1}{2}$ meters each, how many pieces will you get?

6 Which is better to buy:8 cans of green beans of 36 LE or 13 cans of green beans of 55.25 LE?

7 If the price of one meter of cloth is L.E 9.8, what is the cost of 1.5 meter of the same cloth?

8 If the price of one meter of cloth is 25.4 L.E
Find the price of 2.5 meter.

9 In the following figure, the ratio between the number of circles of the number of squares is .... : .... ,

While the ratio between the number of squares to the number of all shapes is ...... : ......

(In the simplest form)



10 Mona bought 5 kg of strawberries; she paid 15 L.E. How much money does she pay to buy 7 kg?

....

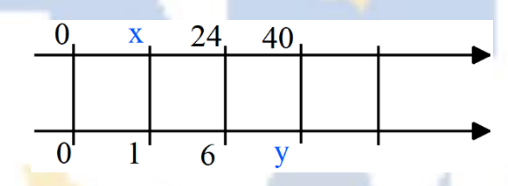
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11 From the following double number line, find the value of x and y.

Students

Tables



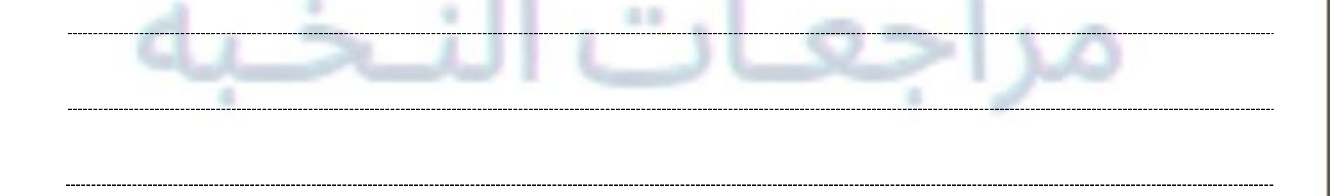
....

....

....

12 Find each ratio in simplest form.

a) 49 : 56   b) 24 : 30



....

....

....



13 **Find:**

a) $4.48 \div 0.8$

b) $14.3 \times$

5.3

c) $\frac{2}{3}$ of $\frac{3}{2}$

d) $4 \div \frac{4}{3}$

....

....

....

14 **A number of friends shared $\frac{1}{2}$ kg of fishing bait and each shared $\frac{1}{6}$ kg, how many friends shared the fishing bait?**

....

....

....

15 **By using the modeling division find the quotient.**

a) $\frac{2}{3} \div 4$

b) $\frac{3}{4} \div \frac{2}{5}$

....

....

....



16 $\frac{4}{5}$ meters of string is divided into 4 equal pieces of string, what is the length of each piece.

17 Complete the following ratio tables:

A)

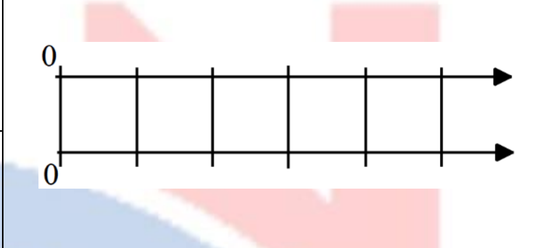
3	………	15	………	96
………	3	5	9	………

18 In a juice shop 3 kg of strawberry were squeezed to provide 9 cups of juice. If 6 kg were squeezed, how many cups we obtained?



19 The following shows the covered distance of cat in meters and the time taken in seconds. Represent this data by double number line and find the value of A and B.

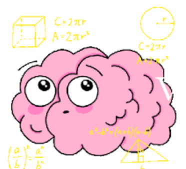
Distance in meters	2	4	A	8
Time in seconds	4	8	12	B



20 If the price of 15 pencils of the same kind is 112.5 L.E. Find the price of each pencil.

21 The total number of boys and girls in school is 540, if the number of boys in this school is 300. Find the ratio between the number of boys and number of girls.





22 Laine reads 36 pages in 40 minutes, and Omar reads 56 pages in 6 minutes, are they reading in the same ratios? Explain your answer.

---

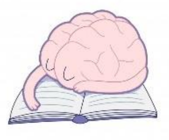
23 Show which of the following ratios are equivalent and which are not equivalent

a) $\frac{20}{24}, \frac{18}{27}$

b) $\frac{36}{18}, \frac{48}{24}$

---

24 Youssef has 5.25 meters of ribbon. He wants to split it equal pieces of 0.25 meters each. How many pieces will he have?



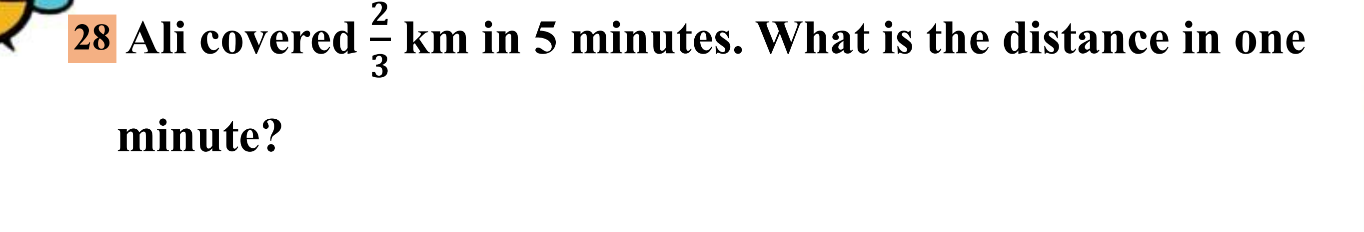
25 2 liters of paint is to be divides into containers of $\frac{3}{5}$ liters each, how many containers can the paint be divided into?

26 $1 \div \frac{1}{6} =$ …………

27 Sandy uploads videos into YouTube, if the video takes 15 minutes:

A) How many videos will be uploaded in 75 minutes?

B) How long will Sandy take to upload 4 videos to YouTube?



28 Ali covered $\frac{2}{3}$ km in 5 minutes. What is the distance in one minute?

29 Two machines produce cloth, the first one produces 365 meters in 5 hours and the second produce 480 meters in 6 hours.

Which machine is better?

30 A box of table tennis balls weighs $\frac{10}{18}$ of a kg. If each ball weighs $\frac{5}{27}$ of a kg, then how many balls are there in the box?

31 If 437.5 L.E is distributed among the excellent pupils and each of them takes 17.5 L.E.

Find the number of excellent pupils.

32 Ashraf wants to plant trees, it takes him 30 minutes to plant a tree.

Use a double number line to find:

Minutes

Tress

a) How many trees do he plant in 2 hours?

b) How long will it take him to plant 7 trees?



Answers:

1	c	21	d	41	b	61	a
2	c	22	d	42	c	62	b
3	c	23	d	43	a	63	b
4	c	24	b	44	b	64	b
5	c	25	b	45	b	65	b
6	b	26	a	46	b	66	b
7	c	27	c	47	b	67	a
8	c	28	a	48	a	68	a
9	c	29	b	49	c	69	
10	d	30	a	50	b	70	
11	b	31	b	51	d	71	
12	a	32	b	52	c	72	
13	b	33	d	53	c	73	
14	b	34	d	54	b	74	
15	c	35	b	55	b	75	
16	d	36	b	56	b	76	
17	a	37	c	57	d	77	
18	a	38	b	58	d	78	
19	c	39	b	59	b		
20	d	40	b	60	b		



Answers:

1 Khaled : Seif

$$3 : 2$$

$$X \quad 120$$

$\times 60$

Height of Khaled = $3 \times 60 = 180$

---

2 $\frac{3}{5} \div 3 = \frac{3}{5} \times \frac{1}{3} = \frac{1}{5}$ Km

---

3 $\frac{13}{14} \div \frac{2}{7} = \frac{13}{14} \times \frac{7}{2} = \frac{13}{4} = 3\frac{1}{4}$ pieces

---

4 $\frac{7}{8} \div \frac{1}{4} = \frac{7}{8} \times 4 = \frac{28}{8} = \frac{7}{2} = 3.5$ pieces

---

5 $3 \div \frac{1}{2} = 3 \times 2 = 6$ Pieces

---

6 If we by 8 for 36 L.E one can = cost = $\frac{36}{8} = 4.5$ L.E

And if we buy 12 for 55.25 L.E we

cost = $\frac{55.25}{13} = 4.25$ L.E

then it's better to buy 13 for 55.25 L.E

---

7 : 9.8

1.5 : ?

1.5 × 9.8 =17.7 L.E

---

8 2.5 × 25.4 = 63.5 L.E

---

9 3 : 4

4 : 12 (in simplest form 1 : 3)

---

10 Prices per Kg = $\frac{15}{5}$ = 3 L.E

Prices for 7 Kg = 7 × 3 = 21 L.E

---

11 $24 : 6 \overset{\div 6}{\Rightarrow} 4$ for 1

$\therefore$ x = 4 students

y = 1 × 10 = 10 table

---

12 a) $\dfrac{49 \overset{\div 7}{\longrightarrow}}{56 \overset{\div 7}{\longrightarrow}} = \dfrac{7}{8}$ b) $\dfrac{24 \overset{\div 6}{\longrightarrow}}{30 \overset{\div 6}{\longrightarrow}} = \dfrac{4}{5}$

---

13 a) $44.8 \div 8 = 5.6$ b) $14.3 \times 5.3 = 75.79$

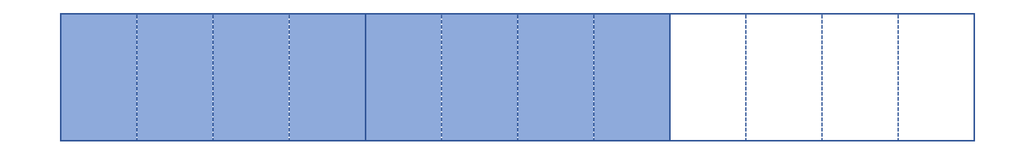
c) $\dfrac{2}{3} \times \dfrac{3}{2} = 1$ d) $4 \div \dfrac{4}{3} = 4 \times \dfrac{3}{4} = 3$

---

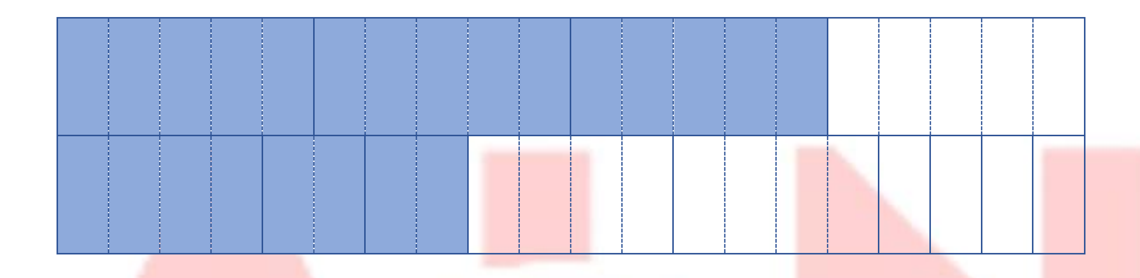
14 $\dfrac{1}{2} \div \dfrac{1}{6} = \dfrac{1}{2} \times 6 = 3$ friends

---

15 a) $\dfrac{2}{12} = \dfrac{1}{6}$ $\neq$



b) $\frac{15}{8} = 1\frac{7}{8}$



16 $\frac{4}{5} \div 4 = \frac{4}{5} \times \frac{1}{4} = \frac{4}{5}$ meter

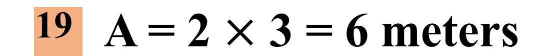
17

3	9	15	24	96
1	3	5	9	32

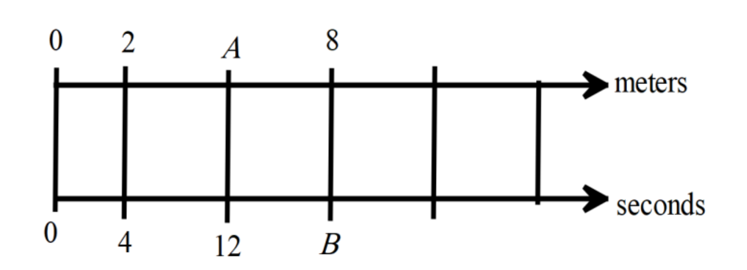
18 3 Kg for every 9 cups

then 6 Kg for every $(9 \times 2) = 18$ cups

19 A = 2 × 3 = 6 meters



B = 4 × 4 = 16 seconds





20 Price for each pencil = 112.5 ÷ 15 = 7.5 L.E

21 Number of girls = 540 - 300 = 240

Boys : girls

300 : 240 (In the simplest form $\frac{5}{4}$)

22 Lain ratio $= \frac{36}{40}$ in simplest form $\frac{9}{10}$

9 pages for every 10 minutes

Omar ratio $= \frac{56}{6}$ in simplest form $\frac{9}{1}$

Then they aren't the same

23 a) $\frac{20}{21}, \frac{18}{27}$

means time = 24 × 18 = 432

extreme time = 20 × 27 = 540

mean time doesn't equal with extreme time so the are not equivalent.



b) $\frac{36}{18}, \frac{48}{24}$

means = 18 × 48 = 864

extreme = 24 × 36 = 864

means multiplication equal with extreme multiplication so they are equivalent.

---

24 $5.25 \div 0.25 = 525 \div 25 = 21$

---

25 $2 \div \frac{5}{3} = \frac{10}{3} = 3\frac{1}{3}$

---

26 $1 \div \frac{1}{6} = 1 \times 6 = 6$

---

27 a) Video : min

1 : 15

x : 75

x = 5 video

b) Video : mi

1 : 15

4 : y

y = 15 × 4 = 60 min



28 Distance is one minute $= \frac{2}{3} \div 5 = \frac{2}{3} \times \frac{1}{5} = \frac{2}{15}$ Km

29 First machines rate $= \frac{365}{5} = 73$ meters per 1 hour

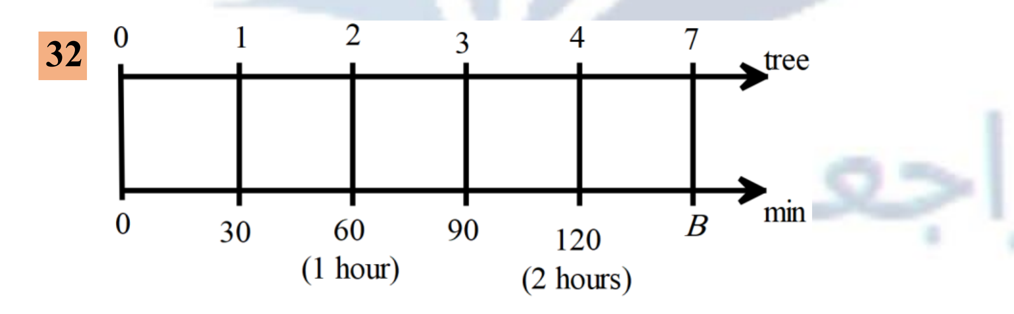
Second machines rate $= \frac{480}{8} = 80$ meter per 1 hour

The second machine produced more in the same so its better

30 $\frac{10}{18} \div \frac{5}{27} = \frac{10}{18} \times \frac{27}{5} = 3$ balls

31 $437.5 \div 17.5 = 4375 \div 175 = 25$ pupils.

32



a) 4 trees

b) $B = 7 \times 30 = 210$ min $= 3\frac{1}{2}$ hours

حمل الآن

مجانا وحصريا

المراجعة رقم (6)

اختبار شهر فبراير







Choose the correct answer:

1 $5 \div \frac{1}{10} =$ ....

ⓐ $\frac{5}{10}$ ⓑ $\frac{10}{5}$ ⓒ 2 ⓓ 50

2 $\frac{3}{5}$ of $\frac{5}{3}$ = ...

ⓐ $\frac{35}{53}$ ⓑ 1 ⓒ $\frac{3}{5}$ ⓓ $\frac{5}{3}$

3 $\ldots\ldots \div \frac{3}{7} = \frac{7}{6}$

ⓐ $\frac{1}{2}$ ⓑ $\frac{37}{76}$ ⓒ 1 ⓓ $\frac{1}{3}$

4 Half of $\frac{10}{7}$ = ...

ⓐ $\frac{5}{3}$ ⓑ $\frac{7}{10}$ ⓒ $\frac{5}{7}$ ⓓ $\frac{1}{2}$

5 $37.23 \div 0.35 =$ .... $\div 35$

ⓐ 37.23 ⓑ 372.3 ⓒ 3723 ⓓ 0.3723

6 $\ldots\ldots\ldots \times \frac{5}{8} = \frac{5}{6}$

ⓐ $1\frac{1}{3}$ ⓑ $\frac{25}{48}$ ⓒ $\frac{1}{2}$ ⓓ $8\frac{2}{5}$

7 The simplest form of the ratio 12 : 15 is = ...

ⓐ $\frac{24}{30}$ ⓑ $\frac{4}{5}$ ⓒ $\frac{3}{4}$ ⓓ $\frac{1}{5}$

8 $\frac{5}{7}$ of 21 = ...

ⓐ 5 ⓑ 7 ⓒ 35 ⓓ 15

9 $5.4 \times 0.02 =$ ....

- (a) 10.8
- (b) 108
- (c) 0.108
- (d) 1.08

10 The simplest form of the ratio 2500 : 3500 is = ...

- (a) 2 : 3
- (b) 3 : 2
- (c) 5 : 7
- (d) 1 : 2

11 The simplest form of the ratio 14 : 21 is = ...

- (a) 2 : 3
- (b) 3 : 2
- (c) 5 : 7
- (d) 1 : 2

12 $\frac{1}{2}$ ◯ $\frac{3}{4} \div \frac{1}{2}$

- (a) <
- (b) >
- (c) =
- (d) ≤

13 If the ratio between a : b is 2 : 3 and b is 9, then a = ...

- (a) 2
- (b) 3
- (c) 5
- (d) 6

14 $\frac{7}{4} \div \frac{3}{4} =$ ....

- (a) $2\frac{1}{3}$
- (b) $3\frac{1}{2}$
- (c) $\frac{7}{4}$
- (d) $\frac{3}{4}$

15 The product of any number × its reciprocal = ...

- (a) 0
- (b) 1
- (c) Half
- (d) Third

16 In the equivalent ratios: the product of extremes ◯ the product of means.

- (a) <
- (b) >
- (c) =
- (d) ≤

17 From the opposite bar model:

1			1			1			1		
$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$

$4 \div \frac{1}{3} =$ ....

- (a) $\frac{3}{4}$
- (b) 4
- (c) 12
- (d) 6

18 $0.2 \times 0.3 =$ ....

- (a) 0.6
- (b) 0.06
- (c) 0.60
- (d) 6

19 If: 112 × 32 = 3584, then: 1.12 × 3.2 = ...

ⓐ 358.4 ⓑ 35.84 ⓒ 3.584 ⓓ 0.3584

20 The missing number in the opposite double number line is ....

Time [seconds]	0	2	4	6	8
Distance [meters]	0	8	......	24	32

ⓐ 2 ⓑ 4 ⓒ 16 ⓓ 20

21 If: $\frac{5}{7} = \frac{x}{21}$, then x = ...

ⓐ 5 ⓑ 7 ⓒ 15 ⓓ 21

22 The reciprocal of $\frac{3}{7}$ is ....

ⓐ $\frac{3}{7}$ ⓑ $\frac{7}{3}$ ⓒ $\frac{1}{7}$ ⓓ 1

23 The reciprocal of 9 is ....

ⓐ 9 ⓑ 1 ⓒ 0 ⓓ $\frac{1}{9}$

24 The reciprocal of $2\frac{2}{3}$ is ....

ⓐ $\frac{3}{2}$ ⓑ $2\frac{3}{2}$ ⓒ $\frac{3}{8}$ ⓓ $\frac{8}{3}$

25 The ratio between two side lengths of a square = ...

ⓐ 1 : 4 ⓑ 1 : 2 ⓒ 1 : 1 ⓓ 2 : 4

26 If: $\frac{a}{b} = \frac{c}{d}$, then ....

ⓐ $a \times b = c \times d$ ⓑ $a \times c = b \times d$ ⓒ $a \times b = c \times b$ ⓓ $a \times d = c \times b$

27 7 ÷ .... = 7 × 5

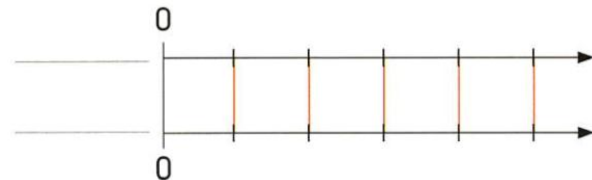
ⓐ $\frac{1}{5}$ ⓑ $\frac{1}{7}$ ⓒ 5 ⓓ 35



Essay Problems:

1 The following table shows the covered distance of cat in meters and the time taken in seconds. Represent this data by double number line and find the value of A and B

Distance in meters	2	4	A	8
Time in seconds	4	8	12	B



....

....

....

2 In a juice shop: 3 kg of strawberry were squeezed to provide 9 cups of juice. If 6 kg were squeezed, how many cups we obtained?

....

....

....

3 If the price of one meter of cloth is L.E. 9.8, what is the cost of 1.5 meter of the same cloth?

....

....

4 Ali covered $\frac{2}{3}$ km in 5 minutes. What is the distance covered in one minute?

....

....

5 In a farm, the ration between rabbits and sheep is 3 : 5 and the number of sheep is 35. What is the number of rabbits?

....

....

6 Samy drinks 14 glasses of milk weekly, then he drinks .... glasses/day.

7 If $3 : 7 = x : 28$, then find the value of $x - 2$. ....



حمل الآن

مجانا وحصريا

المراجعة رقم (7)

اختبار شهر فبراير







Q1: CHOOSE THE CORRECT ANSWER

1 The division operation represented by the following tape diagram is ....

ⓐ $3 \div \frac{1}{2}$ ⓑ $3 \div \frac{1}{3}$ ⓒ $3 \div \frac{1}{4}$ ⓓ $3 \div \frac{2}{5}$

2 The reciprocal of $\frac{1}{8}$ is ....

ⓐ -8 ⓑ 8 ⓒ $\frac{1}{8}$ ⓓ $-\frac{1}{8}$

3 The reciprocal of $3\frac{3}{4}$ is ....

ⓐ $\frac{15}{4}$ ⓑ $3\frac{4}{3}$ ⓒ $\frac{4}{15}$ ⓓ $3\frac{4}{15}$

4 $\frac{5}{7} \div$ .... $= 1$

ⓐ $\frac{5}{7}$ ⓑ 1 ⓒ $\frac{1}{5}$ ⓓ $\frac{7}{5}$

5 $\frac{3}{8} \times$ .... $= 1$

ⓐ $\frac{3}{8}$ ⓑ 1 ⓒ $\frac{8}{5}$ ⓓ $2\frac{2}{3}$





6 $\frac{1}{5} \times \frac{1}{5} =$ ....

ⓐ $\frac{1}{25}$ ⓑ 1 ⓒ 25 ⓓ 5

7 Any number multiplied by its reciprocal equals ....

ⓐ 1 ⓑ 0 ⓒ same number ⓓ double number

8 The reciprocal of the number .... is $4\frac{2}{5}$

ⓐ $\frac{22}{5}$ ⓑ $4\frac{5}{2}$ ⓒ $\frac{5}{22}$ ⓓ $\frac{2}{11}$

9 $\frac{5}{8} \div$ .... $= \frac{1}{2}$

ⓐ $\frac{8}{5}$ ⓑ $\frac{5}{16}$

ⓒ $1\frac{1}{4}$ ⓓ $\frac{4}{5}$

FOLLOW US



10 .... $\div \frac{1}{2} = \frac{1}{3}$

ⓐ $\frac{1}{6}$ ⓑ 6 ⓒ $\frac{3}{1}$ ⓓ $\frac{2}{3}$

11 $4.5 \div 0.09 =$ .... $\div 9$

ⓐ 0.45 ⓑ 450 ⓒ 45 ⓓ 4.5

12 How many $\frac{3}{5}$'s are in 9 apples?

ⓐ $\frac{27}{5}$ ⓑ 15 ⓒ $\frac{1}{15}$ ⓓ $15\frac{2}{3}$

13 If $25 \times 33 = 825$, then $0.25 \times 3.3 =$ ....

ⓐ 82.5 ⓑ 8.25 ⓒ 0.852 ⓓ 0.825

14 .... $\div 2.15 = 1{,}200 \div 215$

ⓐ 120 ⓑ 12 ⓒ 1.2 ⓓ 1200

15 If $127.92 \div 4.1 = 31.2$, then $12.792 \div 4.1 =$ ....

ⓐ 312 ⓑ 3.12 ⓒ 31.2 ⓓ 0.312

16 .... $\times \frac{3}{5} = \frac{3}{4}$

ⓐ $\frac{4}{15}$ ⓑ $1\frac{1}{4}$ ⓒ $\frac{9}{20}$ ⓓ $2\frac{2}{9}$

AHMED NASSR
MATH TEACHER

17 The tape diagram representing the division process ($3 \div \frac{1}{2}$) is ....

ⓐ ⓑ

ⓒ ⓓ

18 $5.2 \times 0.3 =$ ....

ⓐ 0.156 ⓑ 1.56 ⓒ 15.6 ⓓ 156

19 $0.55 \div 0.011 =$ .... $\div 11$

ⓐ 55 ⓑ 550 ⓒ 5,500 ⓓ 5.5

20 $5 \times$ .... $= 1$

ⓐ $\frac{25}{5}$ ⓑ 1 ⓒ $\frac{1}{5}$ ⓓ 0





FOLLOW US



Q2: COMPLETE THE FOLLOWING

1. The reciprocal of 9 is ....
2. .... $\div \frac{2}{5} = \frac{2}{7}$
3. $\frac{5}{7} \div \frac{2}{14}$ = ... × .... = ...
4. 0.07 × 0.14 = ...
5. .... $\div \frac{5}{7} = \frac{7}{8}$ × ....
6. $10 \div \frac{5}{9}$ = ...
7. 2 ÷ 0.25 = ... ÷ .... = ...
8. .... ÷ .... = $\frac{3}{5} \times \frac{4}{3}$
9. $\frac{2}{3} \div \frac{4}{9}$ = ...
10. $4 \div \frac{3}{5}$ = ...
11. $\frac{6}{7} \div 3$ = ...
12. .... ÷ 0.8 = 2.3
13. 1.5 × .... = 150
14. $\frac{6}{9}$ of $\frac{9}{6}$ = ...
15. $\frac{5}{6}$ ÷ .... = 5
16. If 10.35 ÷ 2.3 = 4.5, then 23 x 4.5 = ...
17. The number which which has no reciprocal is ....





Q3: ANSWER THE FOLLOWING

1 Soha divided 127.5 LE among her three sons. Find the share of each one.

....

2 Find the value of y in each of the following.

(a) $\frac{4}{5} \div y = \frac{1}{4}$

(b) $\frac{4}{5} \times y = 1$

....

3 Fatma wants to divide a piece of fabric of length $\frac{3}{4}$ meter into smaller pieces each of length $\frac{3}{8}$ meter. How many pieces are there?

....

4 If a slice of one pizza costs 12.25 pounds, how much do 13 pieces of the same type cost?

....

5 Suppose you have $\frac{8}{10}$ kg of clay, and you want to cut it into equal pieces of $\frac{1}{5}$ kg each, how many pieces can you make?

....

6 If 53 × 31 = 1,643, then:

(a) 16.43 ÷ 31 = ...

(b) 3.1 × 0.53 = ...

(c) 31 × 5.3 = ...

(d) 1643 ÷ 5.3 = ...

7 Answer the following:

(a) $\frac{1}{2} \div 2 =$ ....

(b) $3\frac{3}{5} \times \frac{5}{6} =$ ....

(c) $6 \times \frac{1}{6} =$ ....

(d) $12 \div \frac{4}{9} =$ ....

8 How much is $\frac{1}{4}$ the number 20?

....

FOLLOW US



Q1: CHOOSE THE CORRECT ANSWER

1 The total number of students in a class is 40 and the boys are 15, then the ratio between girls and boys is ....

(a) 3 : 8 (b) 3 : 5 (c) 5 : 8 (d) 5 : 3

2 The ratio between the perimeter of a square to its side length is ....

(a) 1 : 4 (b) 4 : 1 (c) 3 : 1 (d) 1 : 3

3 77 : 49 = ... : ....

(a) 7 : 11 (b) 7 : 1 (c) 11 : 7 (d) 11 : 1

4 Which ratio of the following does not equal fourth?

(a) $\frac{4}{16}$ (b) $\frac{5}{20}$ (c) $\frac{7}{28}$ (d) $\frac{10}{45}$

5 The ratio between two number is 2:5. If the first number becomes 8, then the second number will be ....

(a) 8 (b) 10 (c) 15 (d) 20

6 $\frac{6}{7}$ is equivalent to ....

(a) $\frac{7}{6}$ (b) $\frac{18}{14}$ (c) $\frac{42}{49}$ (d) $\frac{35}{30}$

7 The ratio between two side lengths of rhombus is ....

(a) 1 : 4 (b) 1 : 3 (c) 1 : 2 (d) 1 : 1

8 The ratio between the side of an equilateral triangle to its perimeter is .... : ....

(a) 1 : 4 (b) 4 : 1 (c) 3 : 1 (d) 1 : 3

9 Merolla spends 120 LE in 4 days, then the rate of what she spends is .... LE/day.

(a) 300 (b) 30

(c) 25 (d) 250



10) If 4 : x = 12 : 18, then x = ...

a) 6 b) 9 c) 15 d) 18

11) If 8 : x = 0.5, then x = ...

a) 4 b) 8 c) 16 d) 40

12) $\frac{7}{.....} = \frac{28}{48}$

a) 10 b) 12 c) 14 d) 16

13) Sandy reads 140 pages of stories weekly, then she reads .... pages daily

a) 20 b) 7 c) 14 d) 70

14) If 3 : x – 1 = 4 : 8 , then x = ...

a) 5 b) 7 c) 8 d) 9

15) If 3 : 5 = 12 : 2x, then x = ...

a) 20 b) 24 c) 12 d) 10

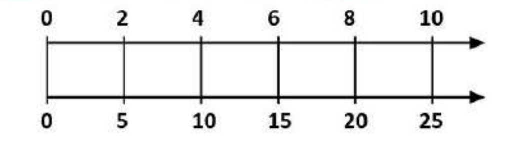
16) .... are two equivalent ratios

a) $\frac{6}{7}, \frac{18}{14}$ b) $\frac{2}{3}, \frac{8}{16}$ c) $\frac{4}{5}, \frac{60}{75}$ d) $\frac{1}{2}, \frac{2}{5}$

17) If a : b and c : d are equivalent ratios then ....

a) a × b = c × d b) a × c = b × d c) a × d = b × c d) a + d = b + c

18) The ratio representing the opposite double line number is ....



a) 2 : 3 b) 3 : 5 c) 2 : 5 d) 2 : 7

19) The ratio representing the opposite tape diagram is ....



a) 3 : 4
b) 3 : 7
c) 4 : 3
d) 4 : 7







20 The second term in the ratio $\frac{7}{12}$ is ....

ⓐ 0 ⓑ 7 ⓒ 1 ⓓ 12

21 An amount of food is distributed between two people in the ratio 3 : 4 then what the first person took = ... the total.

ⓐ $\frac{3}{4}$ ⓑ $\frac{3}{7}$ ⓒ $\frac{4}{7}$ ⓓ $\frac{4}{3}$

22 A a water tap is leaking 240 litres of water in one hour, then the rate of leaking = ... L/min.

ⓐ 240 ⓑ 4 ⓒ 40 ⓓ 6

23 30 L.E for 5 kg, then the cost of 30 kg is .... L.E

ⓐ 5 ⓑ 30 ⓒ 90 ⓓ 180

24 To find the simplest form of the ratio 8 : 16, we divide the two terms by ....

ⓐ 16 ⓑ 8 ⓒ 6 ⓓ 1

25 Which pair shows equivalent ratios ?

ⓐ $\frac{3}{4}$, 16 to 20 ⓑ $\frac{25}{50}$, 1 : 2 ⓒ $\frac{4}{8}$, $\frac{3}{9}$ ⓓ 1 : 3 , 3 : 6

26 If the ratio between a and b is 1 : 3 and the sum of a and b is 20 ,then b = ...

ⓐ 16 ⓑ 4 ⓒ 15 ⓓ 80

27 From the opposite equivalent ratios
A + B = ...

4	36	B
9	A	36

ⓐ 98 ⓑ 97 ⓒ 96 ⓓ 95

28 The next ratio of 2 : 5 , 6 : 15 ,18 : 45 , ...

ⓐ 54 : 135 ⓑ 36 : 90

ⓒ 54 : 90 ⓓ 54 : 180



FOLLOW US



29) If $\frac{x+3}{14} = \frac{1}{2}$, then x = ...

ⓐ 14 ⓑ 7 ⓒ 4 ⓓ 3

30) Carpenter needs 30 m^3 to make 5 tables,
then the rate of used wood = ... m^3 /table.

ⓐ 6 ⓑ 3 ⓒ 5 ⓓ 150

31) If x : 15 = 3 : 5, then x + 4 = ...

ⓐ 8 ⓑ 9 ⓒ 5 ⓓ 13

32) If the ratio between two numbers is 3 : 5 and the smaller number is 12, then the greater number is ....

ⓐ 15 ⓑ 20 ⓒ 36 ⓓ 12

33) If 3 : 5 = 12 : 4 x, then x = ...

ⓐ 20 ⓑ 24 ⓒ 5 ⓓ 10

34) A worker paints a wall with an area of 36 m^2 in 4 hours,
then the rate of painting is .... m^2/hr.

ⓐ 7 ⓑ 8 ⓒ 9 ⓓ 10

Q2: COMPLETE THE FOLLOWING

1) 4 : 7 = ... : 42

2) If 6 : x = 10 : 32 , then x = ...

3) $\frac{3}{5} = \frac{....}{15} = \frac{27}{....} = \frac{....}{....}$

4) If 3 : 7 = x : 28, then x – 2 = ...

5) If $\frac{x}{9} = \frac{4}{x}$, then value of x = ...

6) $\frac{x}{5}$ = 5, then x = ...





7 .... it is a comparison between two quantities that have different units

8 240 : 360 = ... : .... (in the simplest form)

9 If $\frac{7}{k}$ equivalent to $\frac{1}{4}$, then k = ...

10 Gehan bought 2 kg of apples for 120 L.E, then she paid .... L.E to buy 4.5 kg

11 The ratio between the perimeter of equilateral triangle and its side length is .... : ....

12 x + 4 : 12 = 5 : 15, then the value of x = ...

13 The ratio between side length of a square to its perimeter is .... : ....

14 $\frac{y}{3}$ and 7 are two equivalent ratios, then y = ...

15 In the ratio 9 : 5, the first term is .... and the second term is ....

16 A ship covered 360 km in 4 hours, then the speed of the ship is .... km/hr.

17 In the opposite figure, the ratio between the number of hexagon to the number of rectangles is .... : ....

18 From the opposite double number line, if the ratio between what Omar saved to what Eman saved was 3 : 4 if Eman saved 20 L.E. then Omar saved .... L.E

Omar: 0, 3, ...
Eman: 0, 4, 20

Q3: ANSWER THE FOLLOWING

1 In a classroom, if the ratio of the number of boys to the number of girls is 3 to 2, and the total number of pupils in the class is 45, How many girls are in the class?

....

....

2 If the price of 5 pens is 25 pounds, express this using rate words?

....



FOLLOW US



3 A car consumed 640 liters of gasoline in 4 months. How many liters did the car consume on average in one month?

....

4 If Murad has 40 L.E. and Ahmed has 32 L.E. Find.The ratio between what Murad has and the total sum of money in simplest form.

....

5 A car travels a distance of 120 kilometres in two hours, express this using the word average?

....

6 If 100 grams of chocolate give 300 calories, if we had only 40 grams of chocolate, so how many calories would we get?

....

7 Saja uploads videos into YouTube, if the video takes 15 minutes:

a) How many videos will be uploaded in 375 minutes?

b) How long will Saja take to upload 4 videos to YouTube?

....

8 Write a ratio that is equivalent to ratio 3 : 4?

....

9 The number of students in a school is 540, if the number of boys in school is 300, Find: The ratio between the number of boys and the number of girls.

....

10 Marwan has 980 LE. He spends 420 LE. Complete:

a) The money that he spends : the total money = ... : ....

b) The money that he saves : the money that he spends = ... : ....

11 Is the ratio $\frac{15}{35}$ equivalent to the ratio $\frac{3}{7}$?

....



Q1: CHOOSE THE CORRECT ANSWER

1 The division operation represented by the following tape diagram is ....



(a) $3 \div \frac{1}{2}$ (b) $3 \div \frac{1}{3}$ (c) $3 \div \frac{1}{4}$ (d) $3 \div \frac{2}{5}$

2 The reciprocal of $\frac{1}{8}$ is ....

(a) -8   (b) 8   (c) $\frac{1}{8}$ (d) $-\frac{1}{8}$

3 The reciprocal of $3\frac{3}{4}$ is ....

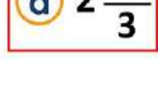
(a) $\frac{15}{4}$ (b) $3\frac{4}{3}$ (c) $\frac{4}{15}$ (d) $3\frac{4}{15}$

4 $\frac{5}{7} \div$ .... = 1

(a) $\frac{5}{7}$ (b) 1   (c) $\frac{1}{5}$ (d) $\frac{7}{5}$

5 $\frac{3}{8} \times$ .... = 1

(a) $\frac{3}{8}$ (b) 1   (c) $\frac{8}{5}$ (d) $2\frac{2}{3}$



6 $\frac{1}{5} \times \frac{1}{5}$ = ...



(a) $\frac{1}{25}$ (b) 1   (c) 25   (d) 5

7 Any number multiplied by its reciprocal equals ....

(a) 1   (b) 0   (c) same number   (d) double number

8 The reciprocal of the number .... is $4\frac{2}{5}$

(a) $\frac{22}{5}$ (b) $4\frac{5}{2}$ (c) $\frac{5}{22}$ (d) $\frac{2}{11}$

9 $\frac{5}{8} \div$ .... = $\frac{1}{2}$

(a) $\frac{8}{5}$ (b) $\frac{5}{16}$
(c) $1\frac{1}{4}$ (d) $\frac{4}{5}$


FOLLOW US



10. .... $\div \frac{1}{2} = \frac{1}{3}$

(a) $\frac{1}{6}$ (b) 6 (c) $\frac{3}{1}$ (d) $\frac{2}{3}$

11. $4.5 \div 0.09 =$ .... $\div 9$

(a) 0.45 (b) 450 (c) 45 (d) 4.5

12. How many $\frac{3}{5}$'s are in 9 apples?

(a) $\frac{27}{5}$ (b) 15 (c) $\frac{1}{15}$ (d) $15\frac{2}{3}$

13. If $25 \times 33 = 825$, then $0.25 \times 3.3 =$ ....

(a) 82.5 (b) 8.25 (c) 0.852 (d) 0.825

14. .... $\div 2.15 = 1{,}200 \div 215$

(a) 120 (b) 12 (c) 1.2 (d) 1200

15. If $127.92 \div 4.1 = 31.2$, then $12.792 \div 4.1 =$ ....

(a) 312 (b) 3.12 (c) 31.2 (d) 0.312

16. .... $\times \frac{3}{5} = \frac{3}{4}$

(a) $\frac{4}{15}$ (b) $1\frac{1}{4}$ (c) $\frac{9}{20}$ (d) $2\frac{2}{9}$

17. The tape diagram representing the division process ($3 \div \frac{1}{2}$) is ....

(a)  (b) 

(c) (d)

18. $5.2 \times 0.3 =$ ....

(a) 0.156 (b) 1.56 (c) 15.6 (d) 156

19. $0.55 \div 0.011 =$ .... $\div 11$

(a) 55 (b) 550 (c) 5,500 (d) 5.5

20. $5 \times$ .... $= 1$

(a) $\frac{25}{5}$ (b) 1 (c) $\frac{1}{5}$ (d) 0



Q2: COMPLETE THE FOLLOWING

1. The reciprocal of 9 is $\frac{1}{9}$
2. $\frac{4}{35} \div \frac{2}{5} = \frac{2}{7}$
3. $\frac{5}{7} \div \frac{2}{14} = \frac{5}{7} \times \frac{14}{2} = 5$
4. $0.07 \times 0.14 = 0.0098$
5. $\frac{7}{8} \div \frac{5}{7} = \frac{7}{8} \times \frac{7}{5}$
6. $10 \div \frac{5}{9} = 18$
7. $2 \div 0.25 = 200 \div 25 = 8$
8. $\frac{3}{5} \div \frac{3}{4} = \frac{3}{5} \times \frac{4}{3}$
9. $\frac{2}{3} \div \frac{4}{9} = 1\frac{1}{2}$
10. $4 \div \frac{3}{5} = 6\frac{2}{3}$
11. $\frac{6}{7} \div 3 = \frac{2}{7}$
12. $1.84 \div 0.8 = 2.3$
13. $1.5 \times 100 = 150$
14. $\frac{6}{9}$ of $\frac{9}{6} = 1$
15. $\frac{5}{6} \div \frac{1}{6} = 5$
16. If $10.35 \div 2.3 = 4.5$, then $23 \times 4.5 = 103.5$
17. The number which which has no reciprocal is zero





Q3: ANSWER THE FOLLOWING

1 Soha divided 127.5 LE among her three sons. Find the share of each one.

42.5 L.E

2 Find the value of y in each of the following.

(a) $\frac{4}{5} \div y = \frac{1}{4}$ $3\frac{1}{5}$

(b) $\frac{4}{5} \times y = 1$ $\frac{5}{4}$

3 Fatma wants to divide a piece of fabric of length $\frac{3}{4}$ meter into smaller pieces each of length $\frac{3}{8}$ meter. How many pieces are there?

2 pieces

4 If a slice of one pizza costs 12.25 pounds, how much do 13 pieces of the same type cost?

159.25 L.E

5 Suppose you have $\frac{8}{10}$ kg of clay, and you want to cut it into equal pieces of $\frac{1}{5}$ kg each, how many pieces can you make?

4 pieces

6 If 53 × 31 = 1,643, then:

(a) 16.43 ÷ 31 = 0.53

(b) 3.1 × 0.53 = 1.643

(c) 31 × 5.3 = 164.3

(d) 1643 ÷ 5.3 = 310

7 Answer the following:

(a) $\frac{1}{2} \div 2 = \frac{1}{4}$

(b) $3\frac{3}{5} \times \frac{5}{6} = 3$

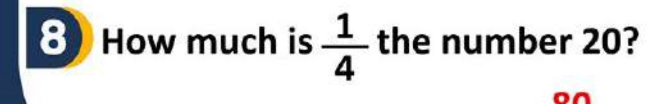
(c) $6 \times \frac{1}{6} = 1$

(d) $12 \div \frac{4}{9} = 27$

8 How much is $\frac{1}{4}$ the number 20?

80







Q1: CHOOSE THE CORRECT ANSWER

1 The total number of students in a class is 40 and the boys are 15, then the ratio between girls and boys is ....

(a) 3 : 8 (b) 3 : 5 (c) 5 : 8 (d) 5 : 3

2 The ratio between the perimeter of a square to its side length is ....

(a) 1 : 4 (b) 4 : 1 (c) 3 : 1 (d) 1 : 3

3 77 : 49 = ... : ....

(a) 7 : 11 (b) 7 : 1 (c) 11 : 7 (d) 11 : 1

4 Which ratio of the following does not equal fourth?

(a) $\frac{4}{16}$ (b) $\frac{5}{20}$ (c) $\frac{7}{28}$ (d) $\frac{10}{45}$

5 The ratio between two number is 2:5. If the first number becomes 8, then the second number will be ....

(a) 8 (b) 10 (c) 15 (d) 20

6 $\frac{6}{7}$ is equivalent to ....

(a) $\frac{7}{6}$ (b) $\frac{18}{14}$ (c) $\frac{42}{49}$ (d) $\frac{35}{30}$

7 The ratio between two side lengths of rhombus is ....

(a) 1 : 4 (b) 1 : 3 (c) 1 : 2 (d) 1 : 1

8 The ratio between the side of an equilateral triangle to its perimeter is .... : ....

(a) 1 : 4 (b) 4 : 1 (c) 3 : 1 (d) 1 : 3

9 Merolla spends 120 LE in 4 days, then the rate of what she spends is .... LE/day.

(a) 300 (b) 30

(c) 25 (d) 250



FOLLOW US



10 If 4 : x = 12 : 18, then x = ...

- (a) 6
- (b) 9
- (c) 15
- (d) 18

11 If 8 : x = 0.5, then x = ...

- (a) 4
- (b) 8
- (c) 16
- (d) 40

12 $\frac{7}{.....} = \frac{28}{48}$

- (a) 10
- (b) 12
- (c) 14
- (d) 16

13 Sandy reads 140 pages of stories weekly, then she reads .... pages daily

- (a) 20
- (b) 7
- (c) 14
- (d) 70

14 If 3 : x – 1 = 4 : 8 , then x = ...

- (a) 5
- (b) 7
- (c) 8
- (d) 9

15 If 3 : 5 = 12 : 2x, then x = ...

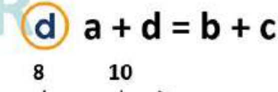
- (a) 20
- (b) 24
- (c) 12
- (d) 10

16 .... are two equivalent ratios

- (a) $\frac{6}{7}, \frac{18}{14}$
- (b) $\frac{2}{3}, \frac{8}{16}$
- (c) $\frac{4}{5}, \frac{60}{75}$
- (d) $\frac{1}{2}, \frac{2}{5}$

17 If a : b and c : d are equivalent ratios then ....

- (a) a × b = c × d
- (b) a × c = b × d
- (c) a × d = b × c
- (d) a + d = b + c



18 The ratio representing the opposite double line number is ....

0 2 4 6 8 10
0 5 10 15 20 25



- (a) 2 : 3
- (b) 3 : 5
- (c) 2 : 5
- (d) 2 : 7



19 The ratio representing the opposite tape diagram is ....



- (a) 3 : 4
- (b) 3 : 7



- (c) 4 : 3
- (d) 4 : 7



FOLLOW US



20 The second term in the ratio $\frac{7}{12}$ is ....

(a) 0 (b) 7 (c) 1 (d) 12

21 An amount of food is distributed between two people in the ratio 3 : 4 then what the first person took = ... the total.

(a) $\frac{3}{4}$ (b) $\frac{3}{7}$ (c) $\frac{4}{7}$ (d) $\frac{4}{3}$

22 A a water tap is leaking 240 litres of water in one hour, then the rate of leaking = ... L/min.

(a) 240 (b) 4 (c) 40 (d) 6

23 30 L.E for 5 kg, then the cost of 30 kg is .... L.E

(a) 5 (b) 30 (c) 90 (d) 180

24 To find the simplest form of the ratio 8 : 16, we divide the two terms by ....

(a) 16 (b) 8 (c) 6 (d) 1

25 Which pair shows equivalent ratios ?

(a) $\frac{3}{4}$, 16 to 20 (b) $\frac{25}{50}$, 1 : 2 (c) $\frac{4}{8}$, $\frac{3}{9}$ (d) 1 : 3 , 3 : 6

26 If the ratio between a and b is 1 : 3 and the sum of a and b is 20 ,then b = ...

(a) 16 (b) 4 (c) 15 (d) 80

27 From the opposite equivalent ratios
A + B = ...

4	36	B
9	A	36

(a) 98 (b) 97 (c) 96 (d) 95

28 The next ratio of 2 : 5 , 6 : 15 ,18 : 45 , ...

(a) 54 : 135 (b) 36 : 90
(c) 54 : 90 (d) 54 : 180

FOLLOW US



29) If $\frac{x+3}{14} = \frac{1}{2}$, then x = ...

ⓐ 14 ⓑ 7 ⓒ 4 ⓓ 3

30) Carpenter needs 30 m^3 to make 5 tables, then the rate of used wood = ... m^3 /table.

ⓐ 6 ⓑ 3 ⓒ 5 ⓓ 150

31) If x : 15 = 3 : 5, then x + 4 = ...

ⓐ 8 ⓑ 9 ⓒ 5 ⓓ 13

32) If the ratio between two numbers is 3 : 5 and the smaller number is 12, then the greater number is ....

ⓐ 15 ⓑ 20 ⓒ 36 ⓓ 12

33) If 3 : 5 = 12 : 4 x, then x = ...

ⓐ 20 ⓑ 24 ⓒ 5 ⓓ 10

34) A worker paints a wall with an area of 36 m^2 in 4 hours, then the rate of painting is .... m^2/hr.

ⓐ 7 ⓑ 8 ⓒ 9 ⓓ 10

Q2: COMPLETE THE FOLLOWING

1) 4 : 7 = ...24........ : 42

2) If 6 : x = 10 : 32 , then x = ...19.2.......

3) $\frac{3}{5} = \frac{9}{15} = \frac{27}{45} = \frac{6}{10}$

4) If 3 : 7 = x : 28, then x – 2 = ...10......

5) If $\frac{x}{9} = \frac{4}{x}$, then value of x = ...6.....

6) $\frac{x}{5}$ = 5, then x = ...25...





GRADE 6 - UNIT (9)

7) ....Rate.... it is a comparison between two quantities that have different units

8) 240 : 360 = ...2.... : ....3.... (in the simplest form)

9) If $\frac{7}{k}$ equivalent to $\frac{1}{4}$, then k = ...28....

10) Gehan bought 2 kg of apples for 120 L.E, then she paid ....270.... L.E to buy 4.5 kg

11) The ratio between the perimeter of equilateral triangle and its side length is ....3.... : ....1....

12) x + 4 : 12 = 5 : 15, then the value of x = ...0....

13) The ratio between side length of a square to its perimeter is ....1.... : ....4....

14) $\frac{y}{3}$ and 7 are two equivalent ratios, then y = ...21....

15) In the ratio 9 : 5, the first term is ....9.... and the second term is ....5.... .

16) A ship covered 360 km in 4 hours, then the speed of the ship is ....90.... km/hr.

17) In the opposite figure, the ratio between the number of hexagon to the number of rectangles is ....3.... : ....2....

18) From the opposite double number line, if the ratio between what Omar saved to what Eman saved was 3 : 4 if Eman saved 20 L.E. then Omar saved ....15.... L.E

Omar: 0, 3, ...
Eman: 0, 4, 20

Q3: ANSWER THE FOLLOWING

1) In a classroom, if the ratio of the number of boys to the number of girls is 3 to 2, and the total number of pupils in the class is 45, How many girls are in the class?

Number of girls is 18

2) If the price of 5 pens is 25 pounds, express this using rate words?

5 Pounds/pen



FOLLOW US



3 A car consumed 640 liters of gasoline in 4 months. How many liters did the car consume on average in one month?

.... 160 L/month ....

4 If Murad has 40 L.E. and Ahmed has 32 L.E. Find.The ratio between what Murad has and the total sum of money in simplest form.

.... 5 : 9 ....

5 A car travels a distance of 120 kilometres in two hours, express this using the word average?

.... 60 km/hr ....

6 If 100 grams of chocolate give 300 calories, if we had only 40 grams of chocolate, so how many calories would we get?

.... 120 calories ....

7 Saja uploads videos into YouTube, if the video takes 15 minutes:

(a) How many videos will be uploaded in 375 minutes? 25 videos

(b) How long will Saja take to upload 4 videos to YouTube? 60 minutes

....

8 Write a ratio that is equivalent to ratio 3 : 4?

.... 6 : 8 ....

9 The number of students in a school is 540, if the number of boys in school is 300, Find: The ratio between the number of boys and the number of girls.

.... 5 : 4 ....

10 Marwan has 980 LE. He spends 420 LE. Complete:

(a) The money that he spends : the total money = ...3... : ...7...

(b) The money that he saves : the money that he spends = ...4... : ...3...

11 Is the ratio $\frac{15}{35}$ equivalent to the ratio $\frac{3}{7}$?

.... yes, equivalent ratios ....

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حمل الآن

مجانا وحصريا

المراجعة رقم (8)

اختبار شهر فبراير





Q1: Choose the correct answer :-

1 $4 \div \frac{1}{3}$ = ---------

1			1			1			1		
$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$

(a) $\frac{3}{4}$ (b) 4 (c) 6 (d) 12

2 $\frac{1}{2} \div 8$ = ---------

$\frac{1}{2}$							
$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$

(a) 4 (b) $\frac{1}{4}$ (c) $\frac{1}{8}$ (d) $\frac{1}{16}$

3 $\frac{1}{4} \div 5$ = ---------

$\frac{1}{4}$				
$\frac{1}{20}$	$\frac{1}{20}$	$\frac{1}{20}$	$\frac{1}{20}$	$\frac{1}{20}$

(a) 5 (b) 20 (c) $\frac{4}{5}$ (d) $\frac{1}{20}$

4 $\frac{2}{7} \div 2$ = ---------

(a) 7 (b) 4 (c) $\frac{4}{7}$ (d) $\frac{1}{7}$

5 $5 \div \frac{3}{6}$ = ---------

(a) 10 (b) 15 (c) $\frac{15}{6}$ (d) $\frac{1}{2}$

6 $\frac{4}{5} \div \frac{1}{2}$ = --------------

(a) $1\frac{4}{5}$ (b) $1\frac{3}{5}$ (c) $\frac{4}{10}$ (d) $\frac{2}{5}$

7 $\frac{3}{8} \div \frac{3}{4}$ = --------------

(a) $1\frac{1}{8}$ (b) 2 (c) $\frac{9}{39}$ (d) $\frac{1}{2}$

8 $5 \div \frac{1}{2}$ = --------------

(a) 10 (b) 1 (c) $\frac{2}{5}$ (d) $\frac{5}{2}$

9 $\frac{3}{4} \div 3$ = ---------------

(a) 1 (b) $\frac{4}{3}$ (c) $\frac{3}{4}$ (d) $\frac{1}{4}$

10 $\frac{4}{11} \div \frac{1}{2}$ = --------------

(a) $\frac{4}{22}$ (b) $\frac{8}{11}$ (c) $\frac{11}{8}$ (d) $\frac{2}{11}$

11 $\frac{4}{7} \div$ ---------- = $1\frac{1}{2}$

(a) $\frac{6}{7}$ (b) $\frac{8}{21}$ (c) $\frac{21}{8}$ (d) $\frac{7}{6}$

12 $\frac{2}{5}$ x ----------- = $\frac{4}{15}$

(a) $\frac{2}{3}$ (b) $\frac{1}{3}$ (c) $\frac{3}{2}$ (d) 3

13 How many $\frac{1}{6}$'s are there in $\frac{1}{2}$ apple ?

(a) 12 (b) 1 (c) 3 (d) $\frac{5}{2}$

14 0.56 x 0.2 = -----------

(a) 11.12 (b) 0.112 (c) 11.2 (d) 0.0112

15 54.45 ÷ 0.9 = -------------

(a) 60.5 (b) 605 (c) 0,605 (d) 6.05

16 4.8 ÷ 0.16 = ---------------

(a) 3 (b) 30 (c) 300 (d) 0.3

17 87.29 ÷ 0.29 = 872.9 ÷ ------------

(a) 2.9 (b) 29 (c) 290 (d) 0.29

18 321 ÷ 24 = 3.21 ÷ ---------------

(a) 2.4 (b) 0.24 (c) 24 (d) 2004

19 If 127,92 ÷ 4.1 = 31.2, then 12.792 ÷ 4.1 = -------------

(a) 312 (b) 0.312 (c) 3.12 (d) 31.2

20 If the ratio between two numbers is 1 : 3 and the first number is 3 , then the second number is ----------

(a) 3 (b) 6 (c) 9 (d) 12

21 If the ratio of the number of red balls to the number of blue balls is 3 : 4 and the number of blue is 24, then the number of red is --------

(a) 18 (b) 32 (c) 44 (d) 12

22 The next ratio of 3 : 6 , 6 : 12 , 12 : 24 , -----------

(a) 24 : 48 (b) 36 : 72 (c) 24 : 27 (d) 12 : 48

23 The next ratio of 2 : 5 , 6 : 15 , 18 : 45 , ------------

(a) 54 : 90 (b) 36 : 90 (c) 54 : 135 (d) 54 : 180

24 If the ratio between a and b is 1:4 and the sum of a and b is 20 , then b = ----------------

(a) 16 (b) 5 (c) 4 (d) 80

25 --------- x $\frac{2}{7}$ = 1

(a) zero (b) 1 (c) $\frac{2}{7}$ (d) $\frac{7}{2}$

26 $5 \div \frac{1}{3}$ = -------------

(a) 15 (b) $5\frac{1}{3}$ (c) $\frac{3}{5}$ (d) $\frac{5}{3}$

27 $\frac{2}{3} \div \frac{1}{2}$ = -------------

(a) $\frac{4}{15}$ (b) $1\frac{1}{3}$ (c) $\frac{15}{4}$ (d) $\frac{1}{15}$

28 $\frac{3}{4} \div 2$ = -------------

(a) $\frac{3}{8}$ (b) $\frac{6}{4}$ (c) $\frac{4}{6}$ (d) $\frac{3}{2}$

29 2.1 x 0.3 = ------------

(a) 6.3 (b) 0.63 (c) 63 (d) 0,063

30 If 15.25 ÷ 0.25 = 61, then 1.525 ÷ 0.025 = ------------

(a) 61 (b) 610 (c) 6.1 (d) 0.61

31 By using the opposite model what is the quotient of $3 \div \frac{2}{3}$

1			1			1		
$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$

(a) 2 (b) $4\frac{1}{2}$ (c) $\frac{3}{2}$ (d) $\frac{2}{3}$

32 If the ratio between oranges and bananas is 3 : 4 and the number of bananas is 20, then the difference between them is -----------

(a) 1 (b) 5 (c) 15 (d) 20

33 --------- $\div \frac{1}{4}$ = 1

(a) 0.4 (b) 1 (c) 4 (d) $\frac{1}{4}$



34 $\frac{2}{3}$ of 27 = -------------

(a) 27 (b) 18 (c) 9 (d) 3

35 3.3 x 1.1 = ---------------

(a) 3630 (b) 363 (c) 36.3 (d) 3.63

36 0.33 ÷ 0.011 = ---------- ÷ 11

(a) 33 (b) 330 (c) 3300 (d) 0.33

37 If the ratio between two numbers is 3:7 and sum of two numbers is 60 then the greater number is ----------

(a) 18 (b) 6 (c) 42 (d) 49

38 you can use the opposite model to solve the problem

(a) $\frac{1}{10} \div \frac{1}{2}$ (b) $\frac{1}{10} \div 5$

(c) $\frac{1}{2} \div 5$ (d) $\frac{1}{2} \div 10$

$\frac{1}{2}$	

$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

39 In the opposite figure : The ratio between length of $\overline{AB}$ and perimeter of $\triangle$ABC is -----

(a) 1 : 10 (b) 2 : 3

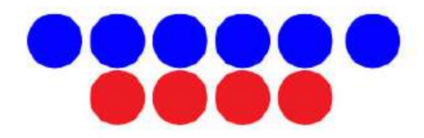
(c) 6 : 8 (d) 2 : 7

A
4 cm
4 cm
B
C
6 cm

40 The ratio between 6 : 14 in the simplest form is 3 : ----------

(a) 2 (b) 3 (c) 11 (d) 7

41 The ratio between red circles and the total number of circles in simplest form is ----------



(a) 4 : 8 (b) 4 : 6 (c) 2 : 3 (d) 2 : 5

42 The ratio between two side lengths of square is --------------

(a) 1 : 4 (b) 2 : 4 (c) 1 : 2 (d) 1 : 1

43 To find the simplest form of the ratio 6 : 12, we divide the two terms by ----------

(a) 1 (b) 2 (c) 6 (d) 12

44 If the ratio between apples to oranges is 4 : 7 then ratio between oranges to apples is -----------

(a) 4 : 7 (b) 7 : 4 (c) 4 : 11 (d) 7 : 11

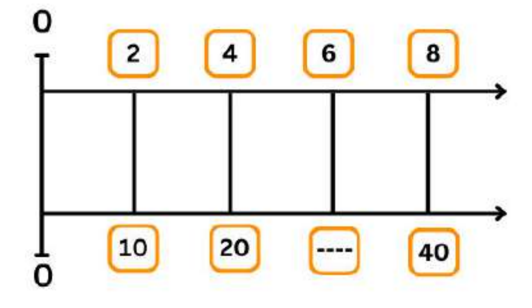
45 Which ratio means the same thing as 19 : 1 ?

(a) 1 through 1 (b) 19 to 1 (c) 1 to 1 (d) $\frac{19}{19}$

46 The missing number in the following double number line is -------

(a) 10 (b) 15

(c) 30 (d) 25



47 If 2 : 7 is equivalent to x : 21 ,then x = -------------

(a) 7 (b) 6 (c) 21 (d) 12

48 If $\frac{8}{x}$ is equivalent to $\frac{1}{2}$, then x = -----------

(a) 4 (b) 8 (c) 16 (d) 40

49 Which ratio is equivalent to 95 : 100 ?

(a) 100 : 95 (b) 180 : 200 (c) $\frac{9.5}{1}$ (d) $\frac{285}{300}$

50 Which of the following ratios is NOT equivalent to $\frac{32}{64}$

(a) 18 : 34 (b) $\frac{16}{32}$ (c) $\frac{64}{128}$ (d) $\frac{4}{8}$

51 Which pair shows equivalent ratios ?

(a) 5 to 7 and 7 to 9 (b) 6 : 9 and 3 : 2 (c) $\frac{18}{36}$ and $\frac{3}{6}$ (d) $\frac{9}{32}$ and $\frac{3}{8}$

52 If ratio between number of boys and girls is 3 : 5 then the ratio between girls to total number is ----------

(a) 3 : 5 (b) 3 : 8 (c) 5 : 8 (d) 5 : 3

53 If $\frac{x}{2} = \frac{2}{1}$, then X = ---------

(a) 4 (b) 9 (c) 10 (d) 8

54 From the following equivalent ratios, B + A = -------------

(a) 5 (b) 25

(c) 31 (d) 2 : 3

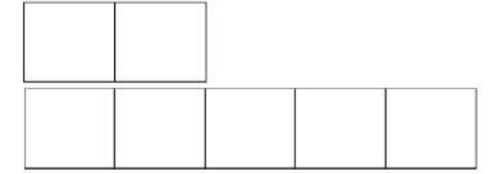
2	6	B
5	A	25

55 If the ratio between the number of oranges and the number of apples is 3 : 5 and the number of apples is 15 , then the number of oranges is --------------------

(a) 3 (b) 9 (c) 5 (d) 15

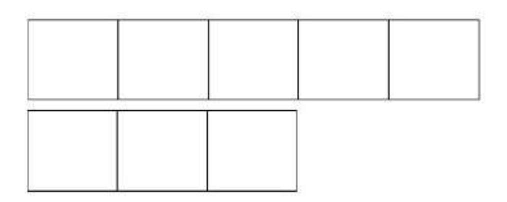
56 If the ratio between the number of red pens to the number of blue pens is 2 : 5 and the number of blue pens is more than the number of red pens by 6 pens , then the sum of all pens is -------

(a) 4 (b) 7
(c) 10 (d) 14



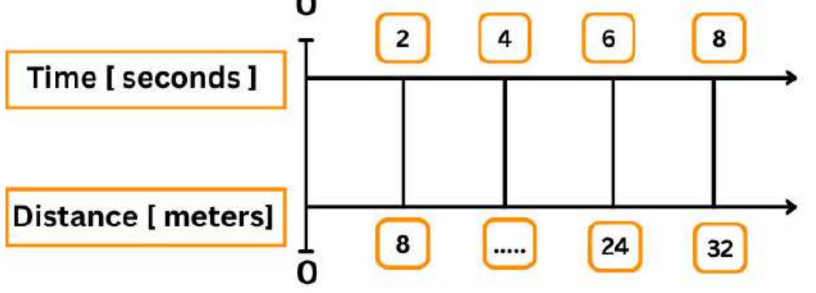
57 The opposite tape diagram represents the ratio ------------

(a) 3 : 4 (b) 5 : 3
(c) 1 : 3 (d) 3 : 5



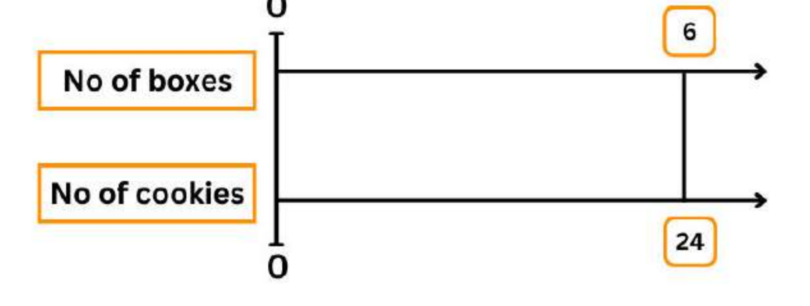
58 The missing number in the opposite double number line is ....

(a) 8 (b) 18
(c) 16 (d) 12



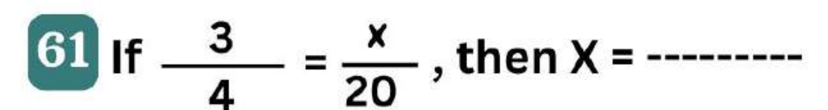
59 Using the double number line the number of cookies in 3 boxes = -----

(a) 4 (b) 8
(c) 16 (d) 12



60 25 : 50 = -----------

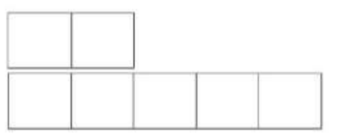
(a) 10 : 5 (b) 1 : 2 (c) 2 : 1 (d) 5 : 1



61 If $\frac{3}{4} = \frac{x}{20}$, then X = ---------

(a) 7 (b) 15 (c) 21 (d) 24

62 The tape diagram represents the ratio ------------

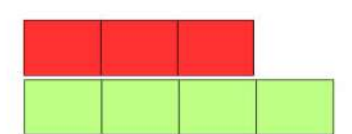


(a) 5 : 2 (b) 3 : 2 (c) 7 : 2 (d) 2 : 5

63 Which of the following is equivalent to $\frac{8}{12}$

(a) $\frac{10}{15}$ (b) $\frac{3}{4}$ (c) $\frac{3}{2}$ (d) $\frac{1}{2}$

64 In the opposite figure, the ratio between number of red squares and number of green squares = ----



(a) 5 : 2 (b) 3 : 4 (c) 7 : 2 (d) 2 : 3

65 Which of the following is NOT equivalent to $\frac{14}{21}$

(a) $\frac{2}{3}$ (b) $\frac{16}{24}$ (c) $\frac{18}{27}$ (d) $\frac{4}{2}$

66 In the opposite tape diagrams. If the number of boys is 20, then the number of girls =-------

Boys

Girls

(a) 16 (b) 20 (c) 24 (d) 30

67 Which of the fo[lowing are equivalent ?

(a) $\frac{18}{20}, \frac{27}{30}, \frac{1}{3}$ (b) $\frac{18}{20}, \frac{9}{10}, \frac{27}{30}$ (c) $\frac{9}{10}, \frac{16}{20}, \frac{36}{40}$ (d) $\frac{2}{9}, \frac{4}{18}, \frac{8}{27}$

68 If $\frac{a}{b} = \frac{c}{d}$. Which of the following is true ?

(a) a x b = c x d (b) a x c = b x d (c) a x d = c x b (d) c x b = d x b

69 Which of the ratios in each pair are equivalent ?

(a) $\frac{10}{8}, \frac{15}{12}$ (b) $\frac{6}{2}, \frac{8}{2}$ (c) $\frac{3}{12}, \frac{4}{1}$ (d) $\frac{5}{10}, \frac{3}{9}$

70 If $\frac{x+2}{5} = \frac{28}{35}$, then X = ---------

(a) 4 (b) 2 (c) 6 (d) 8

71 $\frac{3}{5}$ is NOT equivalent to ------------

(a) $\frac{6}{10}$ (b) $\frac{9}{15}$ (c) $\frac{12}{25}$ (d) $\frac{18}{30}$

72 If $\frac{3}{0.5} = \frac{x}{1}$, then X = ---------

(a) 2 (b) 3 (c) 6 (d) 9

Q2: Complete the following : -

1 4.2 ÷ 0.7 = ------------- ÷ --------------- = --------------

2 0.28 ÷ 0.04 = ------------- ÷ --------------- = --------------

3 76.5 ÷ 7.65 = $\frac{76.5 \times \text{--------}}{7.65 \times \text{---------}}$ = $\frac{\text{----------------}}{\text{----------------}}$ = --------------

4. $\frac{35}{42} = \frac{\square}{6}$

5. $\frac{13}{12} = \frac{26}{\square}$

6. ---------------- x $\frac{7}{8}$ = 1

7. $\frac{1}{4}$ ÷ ---------------- = $\frac{1}{2}$

8. $\frac{\square}{5} = 3$

9. ---------------- ÷ $\frac{5}{7}$ = $\frac{1}{5}$

Q3: Answer the following :-

1 Find each ratio in simplest form.

(a) 49 : 56 .... (b) 24 : 30 ....

2 Show which of the following ratios are equivalent or not equivalent.

(a) $\frac{20}{24}$, $\frac{18}{27}$ ....

(b) $\frac{36}{18}$, $\frac{48}{24}$ ....

3 Find the result of each of the following. Simplify if possible.

(a) $45 \div \frac{9}{10}$ = ...

(b) $\frac{3}{5} \div 6$ = ...

4 A runner covered $\frac{2}{3}$ kilometers in 4 laps.
How many kilometers did he make in one Lap?

5 Sameh has 6 liters of milk. He needs to divide it into small bottles of $\frac{3}{4}$ liters each. How many bottles will he need ?

6 You have $\frac{3}{4}$ meters of pipe, how many pieces can you cut the pipe into if each piece is $\frac{1}{8}$ meters ?

7 You have $\frac{9}{10}$ kilogram of clay. You want to make portions that are $\frac{2}{5}$ kg each.

(a) Draw a tape diagram that would represent sharing $\frac{9}{10}$ kg of clay in $\frac{2}{5}$ kg portions.

(b) How many portions can you make ?

8 Baher covered $\frac{2}{3}$ km in 5 minute.

What is the distance covered in one minute ?

9 If the price of one meter of cloth is 9.8 1.E.

What is the cost of 1.5 meters of cloth ?

10 By using the modeling division find the quotient.

ⓐ $\frac{3}{4} \div \frac{2}{5}$

ⓑ $\frac{2}{3} \div 4$

11 A car covered a distance of 221.65 km in 2.75 hours. Calculate the distance it covered in one hour.

12 You have $\frac{3}{4}$ meters of pipe, how many pieces can you cut the pipe into if each piece is $\frac{1}{8}$ meters ?

13 Hany wants to make sandwiches for a class picnic with $\frac{2}{9}$ of a kilogram of sugar. If each sandwich needs $\frac{3}{18}$ of a kilogram of sugar, then how many sandwiches can be made ?

....

....

14 A piece of land of area 5 km^2 was divided equally among farmers. If each farmer took $\frac{5}{8}$ km^2,
then find the number of farmers

....

....

15 If the price of one meter of cloth is 6.45 L.E
what is the cost of 2.4 meters of cloth ?

....

....

....

16 A train covered a distance of 220.5 km in 2.5 hours. Calculate the distance it covered in one hour.

....

....

....

17 Adam says that the ratios 3 : 5 and 2 : 10 are equivalent.

Is he correct ? Explain.

....

....

....

18 A runner covers 8 kilometers in 2 hours.

Find the distance he covers in 4 hours at the same speed.

....

....

....

19 Ahmed bought 3 kg of banana he paid 45 L.E.

How much money does he pay to buy 6 kg ?

....

....

....

20 Find :

(a) $4.2 \div 0.06 =$ .... (b) $1.2 \times 0.3 =$ ....

(c) $\frac{2}{3}$ of $\frac{3}{2}$ .... (d) $5 \div \frac{5}{9} =$ ....

21 If the ratio between boys and girls is 3 : 4 and the number of girls is 20 , then find the number of boys using tape diagram .

....

....

....

22 If the ratio between the number of red flowers to yellow is 7 : 4 . If there are 9 more red flowers than yellow how many flowers in all ?

....

....

....

23 If the ratio between the number of cats and dogs is 2 : 7 and the sum of them is 27 . find the number of each using tape diagram .

....

....

....

24

(a) Complete the following double number line using the given ratio.

0	3	.....	9	.....	15
0	7	14	......	......	35

(a) Write three equivalent ratios .

....

....

25 Malika has 3 red flowers and 4 white flowers . Marwan has 9 red flowers and 12 white flowers . Are the ratio between number of red and white flowers are equivalent with Malika and Marwan ?

....

....

....

26 Find the missing value .



(a) $\frac{3}{4} = \frac{x}{12}$ ....

....



(b) $\frac{m}{20} = \frac{7}{4}$ ....

....

(c) $\frac{2}{7} = \frac{6}{z}$ ....

....

27 Show which of the following ratios are equivalent or NOT by simplify , multiply or divide .

(a) $\frac{5}{10} = \frac{4}{8}$ ....

....



(b) $\frac{4}{16} = \frac{2}{12}$ ....

....

(c) $\frac{8}{76} = \frac{12}{9}$ ....

....

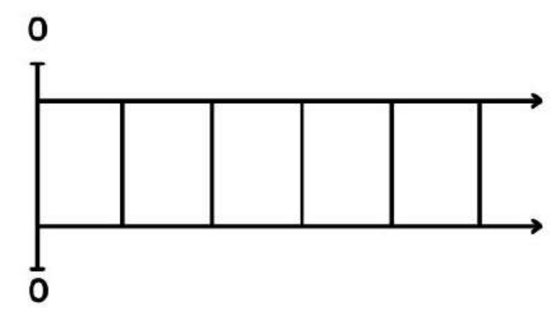
28 In a juice shop 3 kilograms of strawberry were squeezed to provide 9 cups of juice to customers. If 6 kilograms were squeezed, how many cups can be served to customers ?

....

....

29 The following table shows the covered distance of cat in meters and the time taken in seconds. Represent this data by double number line and find the value of A and B .

Distance in meters	2	4	A	8
Time in seconds	4	8	12	B



30 If Wael has 40 L.E. and Ahmed has 32 L.E. Find:

(a) The ratio between what Wael has and what Ahmed has in simplest form.

....

(b) The ratio between what Ahmed has and what Wael has in simplest form

....

31 Ahmed bought 3 kg of banana he paid 45 L.E.
How much money does he pay to buy 6 kg ?

....

....

32 If Mazen has 20 L.E. and Ahmed has 14 L.E. Find:

(a) The ratio between what Mazen has and what Ahmed has in simplest form.

....

(b) The ratio between what Ahmed has and what Mazen has in simplest form .

....

(c) The ratio between what Mazen has and the total sum of money in simplest form.

....

33 Write each of the following ratios in its simplest form.

(a) 6 : 8 ....

(b) 15 : 24 ....

(c) 21 : 9 ....

34 Find the product.

(a) 2.03 x 0.07 = ...

(b) 9.4 x 6.8 = ...

المراجعة رقم (9)

اختبار شهر فبراير





Question (1) Choose the correct answer.

1) The number that names a part of a whole …………

(Digit – Fraction – Numerator – Denominator)

2) The number that tells how many equal parts are there ………….

(Fraction – Numerator – Denominator)

3) The number that represented how many equal parts have been counted …………. (Fraction – Numerator – Denominator)

4) There are ……………… quarter in 1 whole.

(2 – 3 – 4 – 5)

5) $\frac{6}{\dots\dots}=1$ (5 – 7 – 6 – 10)

6) The opposite model represents ………………..

($\frac{5}{4}$ – $\frac{6}{4}$ – $\frac{7}{4}$ – $\frac{4}{4}$)

7) $\frac{3}{5}\div 2=$ ………….. ($\frac{6}{5}$ – $\frac{3}{10}$ – $\frac{6}{10}$ – $\frac{3}{5}$)

8) $8\div\frac{1}{2}=$ ………….. (8 – 24 – 16 – 4)

9) $\frac{1}{2}\div 8=$ ………….. ($\frac{8}{2}$ – $\frac{2}{8}$ – $\frac{8}{16}$ – $\frac{1}{16}$)

10) $\frac{4}{7}\div 1=$ ………….. ($\frac{-4}{7}$ – $\frac{7}{4}$ – $\frac{4}{7}$ – $\frac{-7}{4}$)

11) $\frac{2}{3}\div\frac{2}{3}=$ ………….. ($\frac{4}{9}$ – $\frac{1}{3}$ – 1 – $\frac{9}{2}$)

12) $\frac{2}{3}\div\frac{3}{2}=$ ………….. ($\frac{4}{9}$ – $\frac{1}{3}$ – 1 – $\frac{9}{2}$)

13) $\frac{2}{3}$ Of 24 is ………….. (8 – 24 – 16 – 4)

14) $\frac{1}{2}$ Of 16 is …………… (8 – 24 – 16 – 4)

15) $\frac{1}{3}$ Of 48 is …………… (8 – 24 – 16 – 4)

16) $\frac{3}{4}$ Of 24 is …………… (18 – 24 – 16 – 4)

17) When dividing a whole number by a fraction less than 1, the quotient is ……………. than the dividend. (Greater – Less – Equal)

18) There are ……………… thirds in 2 whole.

(8 – 7 – 6 – 5)

19) $\dots\dots\dots \div 1\frac{1}{3} = 1$ ($\frac{2}{3}$ – $\frac{3}{2}$ – $2\frac{1}{2}$ – 1)

20) $\frac{3}{4} \div 3 =$ …………… ($\frac{4}{3}$ – $\frac{9}{4}$ – 1 – $\frac{1}{4}$)

21) $\frac{4}{7} \div \dots\dots\dots = 1\frac{1}{2}$ ($\frac{8}{21}$ – $\frac{21}{8}$ – $\frac{6}{7}$ – $\frac{7}{6}$)

22) $\frac{1}{4} \div \frac{1}{2}$ …………… $\frac{1}{7}$ (< – > – = – ≥)

23) Half of 7 is …………….. ($3\frac{3}{4}$ – $3\frac{1}{4}$ – 3 – $3\frac{1}{2}$)

24) 54.45 ÷ 9 = ……………. (60.5 – 605 – 0.605 – 6.05)

25) If 48 × 38 = 1728, Then 17.28 ÷ 3.6 = …………….

(480 – 48 – 4.8 – 0.48)

26) 87.29 ÷ 0.29 = 872.9 ÷ ………….. (2.9 – 29 – 290 – 0.29)

27) 4.8 ÷ 0.16 = …………… (3 – 30 – 300 – 0.30)

28) 0.676 × 0.1 = …………… (67.6 – 0.0676 – 6.76 – 6706)

29) The ratio of 6 : 14 in the simplest form is 3 : …………….

(2 – 3 – 11 – 7)

30) The ratio between two sides of square is ……………….

(1 : 4 – 2 : 4 – 1 : 1 – 1 : 2)

31) The next ratio of 3 : 6, 6 : 12, 12 : 24, …………….

(24 : 48 – 36 : 72 – 24 : 27 – 12 : 48)

32) If the ratio is 3 : 4 and the greater number is 20, Then their difference is ……………….

(1 – 5 – 11 – 20)

33) If the ratio is 1 : 4 and their sum is 20, Then their difference is ……………….

(12 – 15 – 16 – 20)

34) If 2 : 7 is equivalent to x : 21, Then x = ………………

(6 – 7 – 12 – 21)

35) if $\frac{x}{2^2} = \frac{2}{1}$, Then $x + 1 =$ …………. (4 – 8 – 9 – 10)

36) if $\frac{3}{0.5} = \frac{x}{1}$, Then $x =$ …………. (2 – 3 – 6 – 9)

37) A ratio is in the simplest form when the only factor between its terms is ……………

(2 – 3 – 0 – 1)

38) The ratio between any equilateral tringle perimeter and its side length is ……………

(2 – 3 – 0 – 1)

39) The ratio between any Rhombus perimeter and its side length is ……………

(2 – 3 – 0 – 1)

40) A factory produced 20000 cans during 5 h, Then the rate of production is ……………..

(2000 – 3000 – 4000 – 4500)

41) The reciprocal of 0.7 is ………… ($\frac{10}{7}$ – $\frac{7}{10}$ – $\frac{7}{7}$ – $\frac{10}{10}$)

42) The reciprocal of $\frac{5}{2}$ is ………… ($\frac{5}{7}$ – $\frac{2}{10}$ – $\frac{2}{5}$ – $\frac{5}{2}$)

Question (2) Complete the Following.

1) Any number divided by itself equals …………….

2) …………. Is the additive identity.

3) $\frac{15}{\dots\dots} = 5$

4) 0 divided by any number equals …………

5) The number which has only 2 factors is ……….

6) The number which has more than 2 factors is …………

7) The smallest odd prime number is …………………

8) The only even prime number is …………….

9) $\frac{2}{\ } = \frac{8}{10} = \frac{\ }{30} = \frac{40}{\ }$

10) $\frac{\ }{3} = \frac{4}{6} = \frac{16}{\ } = \frac{\ }{60}$

11) $\frac{1}{\ } = \frac{\ }{15} = \frac{5}{30} = \frac{25}{\ }$

12) ………….. is the multiplicative identity.

13) $\frac{3}{4} \div \frac{3}{4} = \dots\dots\dots\dots$

14) $\frac{3}{4} \div \frac{6}{4} = \dots\dots\dots\dots$

15) $\frac{2}{3} \div 2 = \dots\dots\dots\dots$

16) $\frac{5}{7} \div \frac{1}{7} = \dots\dots\dots\dots$

17) $\frac{5}{9} \div 2 = \dots\dots\dots\dots$

18) $\frac{6}{7} \div \frac{1}{6} = \dots\dots\dots\dots$

19) $\frac{25}{32} \div \frac{5}{8} =$ ....

20) $\frac{2}{5}$ Of 25 is ....

21) $\frac{3}{7}$ Of 35 is ....

22) $\frac{1}{6}$ Of 42 is ....

23) $\frac{3}{4} \div \ldots\ldots\ldots = 1$

24) $\frac{3}{4} \times \ldots\ldots\ldots = 1$

25) $\frac{5}{7} \div \ldots\ldots\ldots = 1$

26) $\frac{1}{3} \div \ldots\ldots\ldots = 8$

27) The ratio between two quantity is called ....

28) If $\frac{x}{y} = \frac{z}{l}$, Then $x \times \ldots\ldots = z \times \ldots\ldots$

29) $\frac{35}{50} = \frac{x+2}{10}$, Then $x =$ ....

30) Ali bought 2 kg of apple for 100 L.E, Then the price of 6 kg = ...

31) $\frac{8}{17} = \frac{16}{\ldots\ldots}$

32) The next ratio to 3 : 4, 6 : 8, 9 : 12, ... : ....

33) If the ratio between dogs and cats is 3 : 7 and the cats are 21, Then the dogs are ....

34) If 31 × 25 = 775, Then 0.31 × 2.5 = ...

35) 7.23 ÷ 0.1 = ...

36) .... × $\frac{3}{4} = \frac{1}{2}$

37) $\frac{3}{10} \div 3 =$ ....

38) Fifth of 15 is ....

39) There are .... Halves in 8

40) Two thirds of 27 is ....

41) 3.3 × 1.1 = ...

42) 0.33 ÷ 0.011 = ... ÷ 11

43) 0.8 ÷ 0.2 = ...

44) Fourth of 8 is ....

45) How many $\frac{1}{8}$ in $\frac{1}{2}$ ....

46) The reciprocal of 0.5 is ....

Question (3) Essay problems.

1) A box of tennis balls weighs $\frac{5}{9}$ kg, If each ball weighs $\frac{15}{81}$ kg, How many balls are there is the box.

....

....

....

2) A piece of land with area 5 km^2 was divided among farmers, If each farmer took $\frac{5}{8}$ km^2, Find how many farmer are there.

....

....

....

3) The square shaped paper perimeter is $\frac{6}{11}$ m, Find the side length.

……
……
……

4) Mariam wants to make a cupcake for her birthday party and every cup cake requires $\frac{3}{7}$ kg of flour, and she have $\frac{36}{7}$ kg of flour, Find how many cupcakes can she make.

……
……
……

5) Mr. Mohammed Hamdy covered a distance 210 km with his motorcycle in 2.5 h, Find how many km did Mr. Mohammed covered in 1 hour.

……
……
……

6) Mai wants to cut out a new dress and she find that the price of 1 m^2 of cloth is 42.45 L.E and she needs 5.5 m^2, Find the total price.

……
……
……

7) Mostafa bought 5 note books for 15.5 each, find the total price.

……
……
……

8) Mr. Omar Saleh wants to buy a gateau for his party of end of his military service and he have 525 L.E and every gateau piece price is 17.5 L.E, Find how many piece can Mr. Omar buy.

……

……

……

9) Goda bought 3 packets of indomi for 24, Find the price for a 40 packets.

……

……

……

10) Marwa mom made 30 cupcakes and she put them in the oven and asked Marwa to switch the oven off after 30 m and take the cupcakes out of it, But Marwa with the bad luck drooped 6 cupcakes in the floor, Find the ratio between what the cupcakes which are ready for eating now and what are drooped in the floor.

……

……

……

11) Soha made 5 L of juice and she wants to divide it into $\frac{1}{3}$ L bottles, Find how many bottle will she need.

……

……

……

12) Moaz and Hassan in a race if Moaz ran $2\frac{2}{5}$ km in 15 minutes and Hassan ran $3\frac{12}{20}$ km in 20 minutes, Who ran more distance in 1 minute.

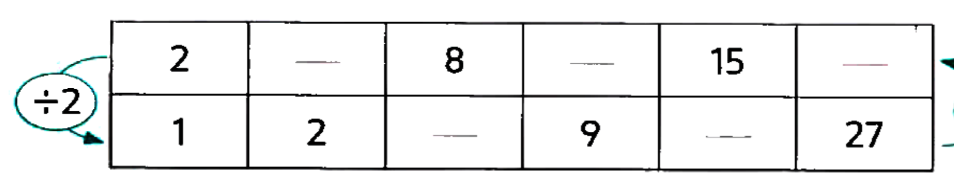
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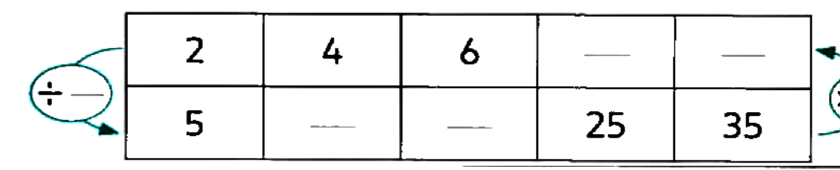
13) Complete each of the following tables to get equivalent ratios.

a.



2	—	8	—	15	—
1	2	—	9	—	27

b.



2	4	6	—	—
5	—	—	25	35

14) Complete the table for a ratio of 3 dogs and 5 cats.

Total	Dog	Cat
8	3	5
16	(A)	(B)
(C)	12	(D)

A) ....   C) ....

B) ....   D) ....

15) In our school if the ration between boys and girls is 6 : 7, If the number of boys is 174, Find the number of girls.

....

....

....

16) **The following table shows the weight of oranges in kg and its price in L.E.**

a. Represent the table by double number line.

b. Use double number line to find the price of 3 kg

c. Use double number line to find the weight of orange that cost 90 L.E.

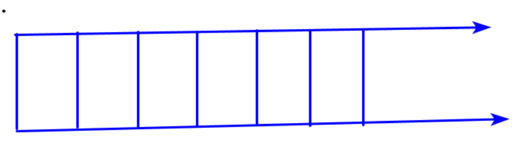
The weight of oranges in kg	The price in L.E.
1	15
2	30
4	60
5	75

....

....

....

....



17) Dina wants to start studying before her final exams, she take 3 days to study every subject, Draw a tape diagram and write a numbers on it to represent the ratio of the number of the subject to the time it takes to study.

A) How long does it take to study her 7 subjects?

B) How many subject will she study in 15 days

....

....

....

حمل الآن

مجانا وحصريا

المراجعة رقم (10)

اختبار شهر فبراير

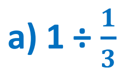




Q1/ Choose the correct answer : -

1) Which problem of the following represent the opposite model ?

1			1			1			1		
$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$



a) $1 \div \frac{1}{3}$ b) $\frac{1}{3} \div 4$

c) $12 \div \frac{1}{3}$ d) $4 \div \frac{1}{3}$

2) $\frac{1}{2} \div 8 =$ ....

$\frac{1}{2}$							
$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$

a) $\frac{1}{8}$ b) $\frac{1}{4}$

c) 4 d) $\frac{1}{16}$

3) $\frac{1}{4} \div 5 =$ ....

$\frac{1}{4}$				
$\frac{1}{20}$	$\frac{1}{20}$	$\frac{1}{20}$	$\frac{1}{20}$	$\frac{1}{20}$

a) $\frac{1}{20}$ b) $\frac{4}{5}$

c) 5 d) 20

4) You can use the opposite model to solve the problem ....

$\frac{1}{2}$					$\frac{1}{2}$				
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$



a) $\frac{1}{10} \div \frac{1}{2}$ b) $\frac{1}{10} \div 5$

c) $\frac{1}{2} \div 5$ d) $\frac{1}{2} \div 10$

5) $\frac{4}{7} \div$ .... $= 1\frac{1}{2}$

a) $\frac{8}{21}$ b) $\frac{21}{8}$ c) $\frac{6}{7}$ d) $\frac{7}{6}$

6) .... $\div \frac{3}{8} = \frac{5}{6}$

a) $\frac{18}{40}$ b) $\frac{15}{16}$ c) $\frac{1}{2}$ d) $\frac{5}{16}$

7) .... $\times \frac{2}{5} = \frac{4}{14}$

a) $\frac{2}{3}$ b) $\frac{2}{7}$ c) $\frac{3}{2}$ d) 3

8) ………… × $1\frac{1}{2}$ = 1

a) $\frac{2}{3}$ b) $\frac{1}{3}$ c) $\frac{3}{2}$ d) 3

9) $\frac{3}{5}$ × …………. = 1

a) $\frac{5}{3}$ b) $\frac{3}{5}$ c) $1\frac{2}{3}$ d) 1

10) Half of 22 = ……………….

a) 11 b) 22 c) 44 d) 2

11) How many $\frac{1}{6}$s are there in $\frac{1}{2}$ apple ?

a) 1 b) 12 c) 3 d) $\frac{1}{3}$

12) How many $\frac{3}{4}$s are there in 6 apple ?

a) 8 b) $\frac{18}{4}$ c) 7 d) $4\frac{1}{2}$

13) 87.29 ÷ 0.29 = 872.9 ÷ ………………

a) 2.9 b) 29 c) 290 d) 0.29

14) 327 ÷ 24 = 3.27 ÷ …………………

a) 2.4 b) 0.24 c) 24 d) 2004

15) If 123 × 45 = 5535 , then 1.23 × 4.5 = ………………

a) 55.35 b) 553.5 c) 5.535 d) 5535

16) If 127.92 ÷ 4.1 = 31.2 , then 12.792 ÷ 4.1 = ……………

a) 0.312 b) 3.12 c) 31.2 d) 312

17) 48 × 36 = 1728 then 17.28 ÷ 3.6 = ………………

a) 48 b) 480 c) 0.48 d) 4.8

18) 0.33 ÷ 0.011 = ……………÷ 11

a) 33 b) 0.33 c) 330 d) 3300

19) Yara uses $\frac{6}{8}$ cup of flour to make 2 cupcakes , how much flour is used to make 1 cupcake ?

a) $\frac{12}{8}$ b) $\frac{3}{8}$ c) $\frac{2}{8}$ d) $\frac{1}{8}$

20) How many $\frac{1}{8}$s are in $\frac{3}{4}$?

a) 6 b) 4 c) 3 d) 8

21) $\frac{2}{3} \div \frac{1}{3}$ ………… $\frac{1}{2}$

a) < b) > c) =

22) Any number multiplied by its reciprocal equals ………….

a) same number b) 0 c) 1 d) double number

23) The ratio between 6:14 in the simplest form is 3:……

a) 2 b) 3 c) 11 d) 7

24) The ratio between two side lengths of square ……:……

a) 1:4 b) 2:4 c) 1:1 d) 1:2

25) To find the simplest form of the ratio 6:12, we divide the two terms by

a) 2 b) 3 c) 6 d) 1

26) If the ratio between apples to oranges is 4 : 7, then ratio between oranges to apples is …………

a) 11:7 b) 7:4 c) 7:11 d) 4:7

27) The total number of students in a class is 40 and the boys are 15 , then the ratio between girls and boys is ………………

a) 3:5 b) 5:3 c) 3:8 d) 5:8

28) If the ratio between two numbers is 1:3 and the first number is 3 , then the second number is ………………

a) 9 b) 3 c) 6 d) 12

29) If the ratio of number of red balls to number of blue balls is 3 : 4 and the number of blue is 24 , then the number of red is ………………

a) 18 b) 32 c) 44 d) 12

30) In the opposite figure , AC:BE = …… : ……

A B C D E

a) 2:3 b) 2:4 c) 1:4 d) 1:3

31) The next ratio of 3:6 , 6,12 , 12:24 , ……………

a) 24:48 b) 36:72 c) 24:27 d) 12:24

32) The next ratio of 2:5 , 6:15 , 18:45 , ……………

a) 54:90 b) 36:54 c) 54:90 d) 54:135

33) If the ratio between a and b is 1 : 4 and the sum of a and b is 20 ,then b = ………………

a) 16 b) 4 c) 5 d) 80

34) If the ratio between oranges and bananas is 3 : 4 and the number of bananas is 20, then the difference between them is ………………

a) 15 b) 1 c) 5 d) 20

35) If the ratio between two numbers is 2:5 and the smaller number is 10,then the greater number is …………

a) 13 b) 4 c) 7 d) 25

36) If 2:7 is equivalent to X:21 , then X = ……………

a) 12 b) 6 c) 7 d) 21

37) If $\frac{8}{X}$ is equivalent to $\frac{1}{2}$, then X = ………………

a) 16 b) 4 c) 8 d) 40

38) If the ratio 7:13 is the same ratio X:52 , then X = ……………

a) 14 b) 21 c) 28 d) 35

39) If $\frac{4}{7}$ is equivalent to $\frac{X}{35}$, then X - 3 = ………………

a) 20 b) 23 c) 17 d) 2

40) If the ratio $\frac{3}{4}$ is equivalent to X : 12 , then X + 5 = ………………

a) 14 b) 8 c) 9 d) 12

41) Maria bought 2 kg of banana for 30 L.E. How much money does she pay to buy 6 kg?

a) 15 b) 34 c) 90 d) 60

42) From the following equivalent ratios B + A = …………

2	6	B
5	A	25

a) 2:3 b) 5 c) 25 d) 31

43) If the ratio between the number of oranges and the number of apples is 3 : 5 and the number of apples is 15, then the number of oranges is …………

a) 3 b) 5 c) 9 d) 15

44) The opposite tape diagram represents the ratio ………

a) 4:3 b) 3:4 c) 3:5 d) 1:3

45) Which ratio is equal to 3:4?

a) $\frac{5}{6}$ b) $\frac{15}{20}$ c) $\frac{10}{20}$ d) $\frac{6}{10}$

46) $\frac{a}{b} = \frac{c}{d}$ Which of the following is true ?

a) a×b = c×d   b) a×c=b×d   c) a×d=c×b   d) c×b=d×b

47) If $\frac{X+2}{5} = \frac{28}{35}$, then X = ...

a) 2   b) 4   c) 8   d) 6

48) If $\frac{X}{2} = \frac{8}{X}$,where X is a natural number , then X = ...

a) 2   b) 4   c) 8   d) 6

49) If $\frac{3}{0.5} = \frac{X}{1}$, then X = ...

a) 2   b) 3   c) 9   d) 6

50) $\frac{3}{5}$ is NOT equivalent to ....

a) $\frac{6}{10}$ b) $\frac{9}{15}$ c) $\frac{12}{25}$ d) $\frac{18}{30}$

51) If $\frac{X}{2^2} = \frac{2}{1}$, then X + 1 = ...

a) 10   b) 4   c) 8   d) 9

52) The simplest form of the ratio 550 to 770 is ....

a) 7 to 5   b) $\frac{55}{75}$ c) 55:7   d) 5:7

53) The product of extremes .... The product of means .

a) <   b) >   c) =

54) 30 L.E. for 5 kg , then the cost of 30 kg is ....

a) 5   b) 30   c) 180   d) 90

Q2/ Complete the following : -

1) The reciprocal of $3\frac{3}{4}$ is ....

2) $\frac{4}{3} \div \frac{2}{9}$ = ... (simplest form)

3) 5 ÷ $\frac{1}{2}$ = ... (simplest form)

4) $\frac{3}{4} \div 3$ = ... (simplest form)

5) $\frac{3}{5} \div \frac{3}{5}$ = ... (simplest form)

6) $\frac{2}{7} \div \frac{2}{4}$ = ... (simplest form)

7) $\frac{9}{10} \div \frac{3}{5}$ = ... (simplest form)

8) $\frac{4}{3} \div \frac{2}{9}$ = ………… (simplest form)

9) ……… × 4 = 1

10) 2.3 × 4 = ……………

11) 0.65 × 0.2 = ……………

12) 0.676 × 0.1 = ……………

13) 2.4 × 3.6 = ……………

14) 54.45 ÷ 0.9 = ……………

15) 4.8 ÷ 0.16 = ……………

16) Fifth of 15 = ………………

17) $\frac{2}{3}$ of 27 = ………………

18) 3.3 × 1.1 = ………………

19) The number of $\frac{2}{5}$ in 2 is …………………

20) $\frac{3}{4} \div m = \frac{3}{8}$, then m = ………………

21) $\frac{3}{4} \times m = \frac{3}{8}$, then m = ………………

22) $5 \div \frac{2}{3} = 5 \times$ ………………

23) Baher covered $\frac{2}{3}$ kilometers in 5 min. what is the distance covered in one minute ? ……………………

24) If the price of one meter of cloth 9.8 , what is the cost of 1.5 meters of cloth ?

25) The model [model] represents ……… ÷ ………

26) Noha uses $\frac{4}{9}$ cup of milk to make 2 mugs of coffee , so she uses ………… cup of milk to make one mug of coffee .

27) The ratio between a and b is 4 : 5 if a = 20,then b = ………………

28) The ratio between two numbers is 2:7 if the greater number is 21 , then the smaller number is ……………….

29) if the ratio between two numbers is 4 : 3 and the sum of them is 14, then the two numbers are ……………

30) The simplest form of the ratio 15 : 18 is ………………

31) The first term in the ratio 4 : 7 is ....
32) The simplest form of the ratio 12 to 20 is ....
33) The ratio between the number of red beads and the number of green beads is 8 : 5 if the number of green beads is 15 , then the number of red beads is ....
34) $\frac{5}{8} = \frac{15}{.....}$
35) $\frac{35}{42} = \frac{.....}{6}$
36) If the ratio between a and b is 3:8 , and b is 16,then a = ...
37) The next ratio of 2 : 3 , 4 : 6 , 8 : 12 is ....
38) If 4 to 9 is equivalent to $\frac{X}{36}$ then x = ...
39) From the opposite figure , AC:FC =.................

A B C D E F

40) If Farida has 50 pounds and Malak has 25 pounds. Find the ratio between what Malak has and the total sum of money in simplest form is ....
41) If the ratio between oranges and bananas is 2 : 5 and the number of oranges is 10 , then the difference between them is ....
42) If the ratio $\frac{7}{8}$ is equivatent to 14 : X , then x – 2 ....
43) The next ratio of 1 : 4 , 2 to 8 , $\frac{4}{16}$ is ....
44) If 2:7 is equivalent to x : 14,then X = ...
45) If the ratio $\frac{4}{9}$ is equivalent to $\frac{12}{X-1}$, then X = ...
46) From the opposite tape diagram , if the sum of boys and girts is 35 , then each box equals ....

Boys
Girls

47) A car consumes 20 liters of benzene for 150 km , then its consumes 10 liters of benzene for .... km
48) If $\frac{5}{X} = \frac{15}{12}$, then 2X = ...
49) The ratio between side length of square and its perimeter is ......:......
50) The ratio between side of equilateral triangle and its perimeter is ...:...
51) The ratio between perimeter of rhombus and its side length is ......:......

Q3/ Answer the following : -

1) A box of table tennis balls weighs $\frac{10}{18}$ of a kg. If each ball weighs $\frac{5}{27}$ of a kg , then how many balls are there in the box ?

2) Yara divided 127.5 L.E. among her three sons. Find the share of each one.

3) If you need to buy 1.5 kilograms of apples at a cost of 40.50 pounds per kilogram , how much money would you pay ?

4) A runner covered $\frac{4}{5}$ kilometer in 2 Laps. How many kilometers did he run in one lap ?

5) Malak has 6 titers of milk. she needs to divide them into small bottles of $\frac{3}{4}$ titer each. How many bottles does she need ?

6) A car consumed 640 L of gasoline in 4 months , how many liters did the car consume in one month ?

7) Seif bought 3 kg of oranges. He paid 36 L.E. How much money does he pay to buy 5 kg ?

8) Farida bought 3 kg of banana she paid 45 L.E. How much money does she pay to buy 6 kg ?

9) A runner covers 8 kilometers in 2 hours. Find the distance he covers in 4 hours at the same speed.

10) There are 24 cookies in 6 boxes, then find the number of cookies in 3 boxes using double number line .

Number of boxes: 0 ... 6

Number of cookies: 0 ... 24

11) From the opposite figure

X + Y = …………………

3	12	X
5	Y	10

12) If the ratio between number of boys and girls is 7 : 6 and the number of girls is 42 girls , use the double number line to find :

a) The number of boys .

b) The number of total pupils .

13) The opposite table shows the ratio between boys and girls , then find :

a) The value of A = ………………

b) The value of B = ………………

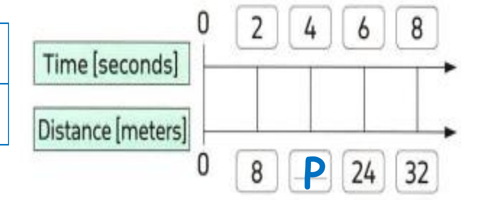
c) The value of C-B = …………………

Boys	Girls	Total
5	7	A
B	C	48

14) Find the missing number in the following :

4	M
5	10

3	9	O
7	N	28



15) Find the value of X in each of the following :

a) $\frac{X-1}{5} = \frac{20}{25}$

b) $\frac{4}{7} = \frac{X+3}{28}$

c) If X : 15 = 3 : 5 , then X + 5 = ……………

Answers

Q1/ Choose

1. d	2. d	3. a	4. c	5. a
6. d	7. b	8. a	9. a	10. a
11. c	12. a	13. a	14. b	15. c
16. b	17. d	18. a	19. b	20. a
21. b	22. c	23. d	24. c	25. c
26. b	27. b	28. a	29. a	30. a
31. a	32. d	33. a	34. a	35. d
36. b	37. a	38. c	39. c	40. a
41. c	42. c	43. c	44. a	45. b
46. c	47. a	48. b	49. d	50. c
51. d	52. d	53. c	54. c	

Q2/ Complete

1) $\frac{4}{15}$	2) 6	3) 10	4) $\frac{3}{12} = \frac{1}{4}$	5) 1
6) $\frac{4}{7}$	7) $\frac{3}{5}$	8) 6	9) $\frac{1}{4}$	10) 9.2
11) 0.13	12) 0.0676	13) 8.64	14) 60.6	15) 30
16) 3	17) 18	18) 3.63	19) 5	20) 2
21) $\frac{1}{2}$	22) $\frac{3}{2}$	23) $\frac{2}{15}$	24) 14.7	25) $2 \div \frac{2}{4}$
26) $\frac{4}{9} \div 2 = \frac{2}{9}$	27) 25	28) 6	29) 8,6	30) 5 : 6
31) 4	32) 3 : 5	33) 24	34) 24	35) 5
36) 6	37) 16 : 24	38) 16	39) 2 : 3	40) 1 : 3
41) 15	42) 14	43) 8 : 32	44) 4	45) 28
46) 9	47) 300	48) 8	49) 1 : 4	50) 1 : 3
51) 4 : 1				

Q3/ Answer

1) 3
2) 42.5
3) 60.75
4) $\frac{2}{5}$
5) 8
6) 160
7) 60 L.E
8) 90 L.E.
9) 16
10) 12
11) 26
12) a) 49 b) 91
13) a) 12 b) 20 c) 8
14) M= 8 N= 21 O= 12 P= 16
15) a) 5 b) 13 c) 14



كيفية طباعة صفحات معينة من ملف معين



مثلا ازاى نطبع الصفحات من صفحة 4 الى صفحة 9

File Edit View E-Sign Window Help

Open... Ctrl+O
Reopen PDFs from last session
Create
Insert Pages
Save Ctrl+S
Save As... Shift+Ctrl+S
Save as Other
Reduce File Size
Export To
Protect Using Password
Request Signatures
Share File
Revert
Close File Ctrl+W
Properties... Ctrl+D
Print... Ctrl+P
1 0003.pdf
2 E:\Image\pdf\0001.pdf
3 0001.pdf
4 Adobe Scan 2 Sep 2021.pdf
5 E:\Image\New folder\2.pdf
View All Recent Files...
Exit Application Ctrl+Q

خطوة 1

Print

Printer: HP LaserJet M207-M212 — Properties — Advanced — Help

Copies: 1 — Print in grayscale (black and white) — Save ink/toner

خطوة 2
اختيار اسم الطابعة بتاعتك

Pages to Print: All — Current — Pages 4 - 9
More Options

خطوة 3
كتابة الصفحات المراد طباعتها
نكتب رقم 4 ثم نكتب الشرطة دي - ثم نكتب 9

Page Sizing & Handling: Size — Poster — Multiple — Booklet
Fit — Actual size — Shrink oversized pages — Custom Scale: 100 % — Choose paper source by PDF page size

Orientation: Auto — Portrait — Landscape

Comments & Forms: Document and Markups — Summarize Comments

Document: 21.0 x 29.7cm
21.59 x 27.94 cm
Page 1 of 18

Page Setup... — Print — Cancel

خطوة 4
اختيار نوع الورق

Page Setup

خطوة 5
اختيار A4

Paper
Size: A4
Source: Automatically Select

Orientation: Portrait — Landscape

Margins (millimeters): Left: 25 — Right: 25 — Top: 25 — Bottom: 25

OK — Cancel

خطوة 6

Print — Cancel